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SHARP 21K-FD1SF SERVICE MANUAL

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SHARP SERVICE MANUAL

No. SI60721KFD1SF

COLOUR TELEVISION
Chassis No.GA-5

MODEL 21K-FD1SF

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

FEATURES

- Multi 21 Systems
- Full Auto Channel Preset and Auto Channel Skip
- 100-CH Program Memory
- CATV (Hyper Band) Ready <Used Frequency Synthesizer Tuner>
- Black Stretch Circuit
- On Timer/Sleep Timer/Reminder Timer
- Blue Back Noise Mute
- Front AV IN & Rear AV IN/OUT Terminals, Front Headphone Jack
- Aperture Control Circuit
- Auto Fine Tuning
- Colour Comb Filter (PAL & NTSC)
- High Contrast Picture
- Hotel Mode
- Arabic/Chinese/English/ French/Malay/Russian 6 Languages OSD
- White Temperature Select
- Component In
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- AV Stereo
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- Auto Picture Noise Reduction
- Pixel Generator
- Tuner Booster

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Parts Guide

WARNING

The chassis in this receiver is partially hot. Use an isolation transformer between the line cord plug and power receptacle, when servicing this chassis. To prevent electric shock, do not remove cover. No user-serviceable parts inside. Refer servicing to qualified service personnel.

SHARP CORPORATION

CHAPTER 1. SPECIFICATIONS

[1] SPECIFICATIONS

Convergence	Self Convergence System
Focus	UNI-BI Focusing
Sweep Deflection	Magnetic
Intermediate Frequencies	
Picture IF Carrier	38.9MHz
Sound IF Carrier Frequency	
6.5MHz	32.4MHz
6.0MHz	32.9MHz
5.5MHz	33.4MHz
4.5MHz	34.4MHz
Colour Sub-Carrier Frequency	34.47MHz
Power Input	110 ~ 240V AC 50 Hz
Power Consumption	112W
Audio Power Output Rating	7.5W(rms) x 2pcs
Speaker	
Size	12 x 6 cm (2pcs)
Voice Coil Impedance	16 ohms at 400 Hz
Aerial Input Impedance	
VHF/UHF	75 ohms Unbalanced
Receiving System	PAL I, B/G, D/K SECAM B/G, D/K, K1, NTSC-M
Receiving Channel	
VHF-Channels	E2(48.25MHz) thru E12(224.25MHz) C1(49.75MHz) thru C12(216.25MHz) S1(105.25MHz) thru S41(463.25MHz)
UHF-Channels	E21(471.25MHz) thru E69(855.25MHz) C13(471.25MHz) thru C57(863.25MHz)
Dimensions	Width: 605mm Height: 468mm Depth: 487.5mm Weight(approx): 22.5kg
Cabinet material	All Plastics

Specifications are subject to change without prior notice

CHAPTER 2. IMPORTANT SERVICE NOTES

[1] IMPORTANT SERVICE NOTES

Maintenance and repair of this receiver should be done by qualified service personnel only.

1. SERVICE OF HIGH VOLTAGE SYSTEM AND PICTURE TUBE

- When servicing the voltage system, remove static charge from it by connecting a 10K ohm resistor in series with an insulated wire (such as a test probe) between picture tube dag and 2nd anode lead. (AC line cord should be disconnected from AC outlet.)
  1) Picture tube in this receiver employs intergral implosion protection.
  2) Replace with the same type number of picture tube for continued safety.
  3) Do not lift picture tube by the neck.
  4) Handle the picture tube only when wearing shatterproof goggles and after discharging the high voltage completely.

2. X-RAY

- The receiver is designed so that any X-Ray radiation is kept to an absolute minimum. Since certain malfunctions or servicing may produce potentially hazardous radiation with prolonged exposure at close range, the following precautions should be observed:
  1) When repairing the circuit , please make sure do not increase the high voltage of the set to more than 30.0KV (at beam 0μA).
  2) To keep the set in a normal operation , please make sure it's function at 26kV±1.0kV (at beam 1.500μA). The set has been factory - adjusted to the above-mentioned high voltage.

     * If there is a possibility that the high voltage fluctuates as a result of the repair, never forget to check for such high voltage after the work.
  3) Do not subsitute a picture tube with unauthotizerd types and/or brands which may cause excessive X-ray radiation.

3. BEFORE RETURNING THE RECEIVER

- Before returning the receiver to the user, perform the following safety checks.
  1) Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the other metal parts in the receiver.
  2) Inspect all protective devices such as non-metal control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacity networks, mechanical insulators etc.

CHAPTER 3. ADJUSTMENT PRECAUTIONS

[1] ADJUSTMENT PRECAUTIONS

This model's setting are adjusted in two different ways: through the I2C bus control and in the conventional analog manner. The adjustments via the I2C bus control include preset-only items and variable data.

CAUTION: MAKE SURE TV SET IN "NORMAL CONDITION" BEFORE SWITCH TO SERVICE MODE FOR ADJUSTMENT.

1. Setting the service mode by the microprocessor.
    1) Press SERVICE key on the remote controller to set the TV set to SERVICE mode position, and the microprocessor is in input mode. (Adjustment through the I2C bus control).
    2) Press the MENU key on the remote controller to get ready to select the mode. (Adjustment mode, Setting mode, Check mode and Option mode) one by one.
    3) Press the CH DOWN / UP key on the remote controller to select the item in Adjustment mode, Setting mode or Option mode.
    4) Using the VOLUME UP / DOWN key on the remote controller, the data can be modified. Please wait approximately 200 msec for data storage in EEPROM before select to another mode.
    5) In Check mode the data cannot be changed.
    6) Press the SERVICE key again, it will switch to the NORMAL mode position, and the microprocessor is out of the SERVICE mode.

2. Factory Presetting.
    1) Power ON the TV set, press the SERVICE key on the remote controller, then press both the CH UP and VOL UP button on the set simultaniously for 5 secs.
    Initial values are automatically preset, only when a new EEPROM is used.
    2) The initial data are preset as listed in page 3-7 ~ 3-16.
    3) Make sure the data need modification or not (Initial data).

    Precaution: If haven't done this initialization, it may possibly generate excessive Beam current.

3. For reference please check with memory map RH-IXB525WJXX (See attachment).

1. ADJUSTMENT ITEM

***Below are the adjustment items that should be done, PLS FOLLOW THE PROCEDURE.
Otherwise some adjustment items will not be accurate.

NO ***	ADJUSTMENT ITEM	EFFECTIVE MODEL	REVISION
1	BUS SET UP	ALL MODEL	
2	OPTION SET UP		
3	H-VCO		
4	VIF-VCO		
5	S-TRAP fo		
6	RF-AGC		
7	PURITY ADJ		
8	CONVERGENCE ADJ		
9	FOCUS ADJ		
10	V-SHIFT (50 Hz)		
11	H-SHIFT (50 Hz)		
12	V-SIZE (50 Hz)		
13	SCREEN		
14	SECAM-OFFSET		
15	SUB-COLOR		
16	SUB-TINT		
17	WHITE BALANCE		
18	SUB-BRIGHTNESS		
19	SUB-CONTRAST		
20	SIF VCO ADJ	Only for Nicam model	
21	BEAM CURRENT CHECK	ALL MODEL	
22	BEAM PROTECTOR CHECK		
23	HV PROTECTOR CHECK		
24	OTHER PROTECTOR CHECK		
25	AV OUT CHECK		
26	AV IN CHECK		
27	COMPONENT IN CHECK		
28	CONTRAST CONTROL CHECK		
29	COLOR CONTROL CHECK		
30	BRIGHTNESS CONTROL CHECK		
31	TINT CONTROL CHECK		
32	SHARPNESS CONTROL CHECK		
33	CH DISPLAY COLOR CHECK		
34	NORMAL DISPLAY CHECK		
35	WHITE TEMP CONTROL CHECK		
36	COLOR SYSTEM CHECK		
37	SURROUND CHECK		
38	TREBLE CHECK		
39	BASS CHECK		
40	BALANCE CHECK		
41	SOUND SYSTEM CHECK		
42	NOISE MUTE CHECK		
43	OSD LANGUAGE QUANTITY CHECK		
44	HEAD PHONE CHECK		
45	SHOCK TEST CHECK		

2. USER DATA IN SERVICE MODE

1). While SERVICE mode ON, EEPROM DATA will switch to the service data. Also, once SERVICE mode OFF, EEPROM will switch back to previous USER DATA.

2). In the service mode, the user data establish as below.

	USER DATA	
CONTRAST	MAX	60
COLOUR	CENT	0
BRIGHTNESS	CENT	0
TINT	CENT	0
SHARPNESS	CENT	0
WHITE TEMP	STANDARD	
S-VOLUME	MIN	
SURROUND	OFF	
TREBLE	CENT	0
BASS	CENT	0
BALANCE	CENT	0
BLUE BACK	OFF	
C SYSTEM	AUTO	
S SYSTEM	*1	

*1: For each CH, data is same as before switch to Service mode.

The flow of Mode list as following,

* Direct Key-in Mode for Service Items in Service Mode

RC CODE (HEX)	R/C KEY NAME	SERVICE-ITEM
01	POS 1	R-C UP (IN SERVICE MODE V00)
02	POS 2	G-C UP (IN SERVICE MODE V00)
03	POS 3	B-C UP (IN SERVICE MODE V00)
04	POS 4	R-C DOWN (IN SERVICE MODE V00)
05	POS 5	G-C DOWN (IN SERVICE MODE V00)
06	POS 6	B-C DOWN (IN SERVICE MODE V00)
07	POS 7	R-D UP (IN SERVICE MODE V00)
08	POS 8	B-D UP (IN SERVICE MODE V00)
0A	POS 0	B-D DOWN (IN SERVICE MODE V00)
09	FLASHBACK	R-D DOWN (IN SERVICE MODE V00)
27	FLASHBACK	Y-MUTE (BESIDES OF SERVICE MODE V00)
AE	WHITE TEMP UP	RF-AGC (V01)
AF	WHITE TEMP DOWN	VIF-VC0 (V02)
43	TUNE DOWN	H-VCO (V03)
B1	SHARPNESS DOWN	SUB-CON (V04)
6B	BALANCE LEFT	SUB-COL (V05)
B0	SHARPNESS UP	SUB-BRIGHT (V06)
6C	BALANCE RIGHT	SUB-TINT (V07)
62	TREBLE UP	SUB-SHP (V08)
63	TREBLE DOWN	SUB-COL-YUV (V09)
64	BASS UP	SUB-TINT-YUV (V10)
24	COLOUR UP	V-SIZE (V11), V-SIZE60 (V17)
2A	BRIGHTNESS DOWN	V-SHIFT (V12), V-SHIFT60 (V18)
2E	TINT DOWN	H-SHIFT (V13), H-SHIFT60 (V19)
66	SURROUND UP	SCM-BR (V14)
67	SURROUND DOWN	SCM-BB (V15)
23	CONTRAST DOWN	SUB-VOL (V16)
32	PICTURE	S-TRAP-BG (V20)
33	HOLD	S-TRAP-I (V21)
34	TEXT	S-TRAP-DK (V22)
35	CANCEL	S-TRAP-M (V23)
37	SIZE	S-TRAP-574 (V24)
01	POS 1	R-C UP YUV (IN SERVICE MODE V25)
02	POS 2	G-C UP YUV (IN SERVICE MODE V25)
03	POS 3	B-C UP YUV (IN SERVICE MODE V25)
04	POS 4	R-C DOWN YUV (IN SERVICE MODE V25)
05	POS 5	G-C DOWN YUV (IN SERVICE MODE V25)
06	POS 6	B-C DOWN YUV (IN SERVICE MODE V25)

RC CODE (HEX)	R/C KEY NAME	SERVICE-ITEM
07	POS 7	R-D UP YUV (IN SERVICE MODE V25)
08	POS 8	B-D UP YUV (IN SERVICE MODE V25)
0A	POS 0	B-D DOWN YUV (IN SERVICE MODE V25)
09	FLASHBACK	R-D DOWN YUV (IN SERVICE MODE V25)
83		AUTO ADJ FOR V01, V02, V03, V20, V21, V22, V23, V24
53		T-SET
81		SERVICE MODE

1.) Please set the MCL according to the specific models.

MCL1 : 21K-FD1SF

MCL2 :

MCL3 :

MCL4 :

2.) After set the MCL, please set the INITIAL SETTING for each models.

INITIAL 1 : For China (All Channel Sound System are set to D/K)

INITIAL 2 : For Hong Kong (All Channel Sound System are set to I)

INITIAL 3 : For Singapore, Africa and Australia (All Channel Sound System are set to B/G)

INITIAL 4 : For Middle-East (All Channel Sound System are set to B/G)

INITIAL 5: For Russia (All Channel Sound System are set to D/K)

MCL1 (HEX AE)			MCL2 (HEX 95)			MCL3 (HEX 55)			MCL4 (HEX D5)		
CH-No	Fv (MHz)	Sound Sys	CH-No	Fv (MHz)	Sound Sys	CH-No	Fv (MHz)	Sound Sys	CH-No	Fv (MHz)	Sound Sys
0			0	590.25	B/G	0			0		
1	48.25	B/G	1	46.25	B/G	1	48.25	B/G	1	55.25	B/G
2	62.25	B/G	2	64.25	B/G	2	59.25	D/K	2	175.25	B/G
3	77.25	D/K	3	86.25	B/G	3	65.75	D/K	3	189.25	B/G
4	175.25	B/G	4	95.25	B/G	4	77.25	D/K	4	203.25	B/G
5	182.25	B/G	5	138.25	B/G	5	85.25	D/K	5	217.25	B/G
6	183.25	D/K	6	175.25	B/G	6	93.25	D/K	6	535.25	B/G
7	191.25	D/K	7	182.25	B/G	7	175.25	B/G	7		
8	196.25	B/G	8	189.25	B/G	8	184.25	D/K	8		
9	199.25	M	9	196.25	B/G	9	199.25	D/K	9		
10	210.25	B/G	10	209.25	B/G	10	210.25	B/G	10		
11	224.25	B/G	11	216.25	B/G	11	224.25	B/G	11	48.25	B/G
12	471.25	B/G	12			12	487.25	I	12	62.25	B/G
13	487.25	I	13			13	503.25	I	13	196.25	B/G
14	503.25	B/G	14			14	575.25	B/G	14	210.25	B/G
15	575.25	B/G	15			15	639.25	D/K	15	224.25	B/G
16	583.25	B/G	16			16	767.25	D/K	16	471.25	B/G
17	599.25	B/G	17			17	831.25	D/K	17	855.25	B/G
18	621.25	M	18			18	855.25	I	18		
19	639.25	D/K	19			19	97.25	M	19		
20	703.25	B/G	20			20	183.25	M	20		
21	735.25	I	21			21	193.25	M	21	223.95	B/G
22	767.25	B/G	22			22	211.25	M	22	224.55	B/G
23	815.25	B/G	23			23	217.25	M	23	223.85	B/G
24	855.25	I	24			24	477.25	M	24	224.65	B/G
25	855.25	B/G	25			25	693.25	M	25	223.75	B/G
26	55.25	M	26			26	62.25	B/G	26	224.75	B/G
27	83.25	M	27			27	503.25	B/G	27		
28	183.25	M	28	527.25	B/G	28	527.25	B/G	28		
29	193.25	M	29			29	599.25	B/G	29		
30	217.25	M	30			30	621.25	M	30		
31	471.25	M	31			31	815.25	B/G	31	91.25	M
32	477.25	M	32			32	112.25	B/G	32	103.25	M
33	693.25	M	33			33	168.25	B/G	33	171.25	M
34	885.25	M	34			34	91.25	M	34	183.25	M
35	112.25	B/G	35			35	294.25	B/G	35	193.25	M
36	168.25	B/G	36			36	463.25	B/G	36	205.25	M
37			37	590.25	B/G	37	174.95	B/G	37	217.25	M
38	294.25	B/G	38			38	174.55	B/G	38	621.25	M
39	463.25	B/G	39			39			39		
40			40			40			40		

MCL1 (HEX AE)			MCL2 (HEX 95)			MCL3 (HEX 55)			MCL4 (HEX D5)		
CH-No	Fv (MHz)	Sound Sys	CH-No	Fv (MHz)	Sound Sys	CH-No	Fv (MHz)	Sound Sys	CH-No	Fv (MHz)	Sound Sys
41	647.25	B/G	41	48.25	B/G	41			41		
42	663.25	B/G	42	62.25	B/G	42			42		
43	679.25	B/G	43	77.25	D/K	43			43		
44	174.95	B/G	44	175.25	B/G	44			44		
45	175.55	B/G	45	183.25	D/K	45			45		
46			46	191.25	D/K	46			46		
47			47	210.25	B/G	47			47		
48			48	224.25	B/G	48			48		
49			49	487.25	I	49			49		
50			50	503.25	B/G	50			50		
51			51	575.25	B/G	51			51		
52			52	599.25	B/G	52			52		
53			53	621.25	M	53			53		
54			54	639.25	D/K	54			54		
55			55	735.25	I	55			55		
56			56	767.25	B/G	56			56		
57			57	815.25	B/G	57			57		
58			58	855.25	I	58			58		
59			59	91.25	M	59			59		
60			60	183.25	M	60			60		
61			61	193.25	M	61			61		
62			62	217.25	M	62			62		
63			63	471.25	M	63			63		
64			64	693.25	M	64			64		
65			65	112.25	B/G	65			65		
66			66	168.25	B/G	66			66		
67			67	294.25	B/G	67			67		
68			68	463.25	B/G	68			68		
69			69	174.25	B/G	69			69		
70			70	175.25	B/G	70			70		

3. SHIPPING SETTING & CHECKING

(1) The following default data has been factory-set for the E2PROM follow by INITIAL DATA selected.

ITEMS	DATA SETTING
LAST POWER	ON
LAST TV/AV MODE	TV MODE
LAST POSITION	CH 1
FLASHBACK CHANNEL	CH 1
1/2 DIGIT ENTRY	2 DIGIT ENTRY
VOLUME	0 (Min)
BLUE BACK	OFF
OFF TIMER	--:--
ON TIMER	--:--
ON TIMER POSITION	--
ON TIMER VOLUME	--
REMINDER	--:--
AFT	ALL CH ON
COLOR SYSTEM	ALL CH AUTO
SKIP	ALL CH OFF
NICAM ON/OFF	ALL CH ON
NICAM STEREO MODE	ALL CH STEREO
NICAM BILINGUAL MODE	ALL CH MAIN
NICAM MONO MODE	ALL CH MONO
A2 ON/OFF	ALL CH ON
A2 STEREO MODE	ALL CH STEREO
A2 BILINGUAL MODE	ALL CH MAIN
CONTRAST	60
COLOR	0
BRIGHTNESS	0
TINT	0
SHARPNESS	0
WHITE TEMP	0
SURROUND	OFF
TREBLE	0
BASS	0
BALANCE	0 (CENTER)

INITIAL	LANGUAGE	SOUND SYSTEM
1 (HEX 14)	CHINESE	D/K
2 (HEX 15)	CHINESE	I
3 (HEX 17)	ENGLISH	B/G
4 (HEX 97)	ARABIC	B/G
5 (HEX 57)	RUSSIAN	D/K
6 (HEX D7)	MALAY	B/G
7 (HEX 37)	FRENCH	D/K

FACTORY SETTING BY MODEL
(Reference: Geomagnetism Adjustment)

MODEL	MAGNETIC FIELD(V, H) nT		BACKGROUND	LANG.	S-SYS	LANG QTY
CHINA	30000	20000	12300K	CHINESE	D/K	5
HONG KONG	20000	40000	12300K	CHINESE	I	5
SINGAPORE	-10000	40000	12300K	ENGLISH	B/G	5
AFRICA	-10000	40000	12300K	ENGLISH	B/G	5
MID-EAST	30000	20000	18000K	ARABIC	B/G	6
RUSSIA	45000	20000	7500K	RUSSIAN	D/K	2
AUSTRALIA	-50000	20000	12300K	ENGLISH	B/G	5

*NOTE FOR OSD TYPE:

2: ENGLISH/RUSSIA
5: ENGLISH/CHINESE/FRENCH/ARABIC/MALAY
6: ENGLISH/CHINESE/FRENCH/ARABIC/MALAY/RUSSIAN

**AFTER INITIALIZED THE EEPROM (REFER TO FACTORY PRESETTING), READ DATA FROM EEPROM ADDRESS 00H ~ 03H,AND COMPARE TO THE LIST BELOW, IF DIFFERENT, INITIALIZE THE EEPROM.

ADDRESS	DATA	ADDRESS	DATA
00H:	7BH	02H:	72H
01H:	75H	03H:	75H

*** There are five stages of service mode data. First stage data from V00~V31 (Adjustment Mode).
To go into second stage of service mode data, press MENU key.Second stage data from F01~F276 (Setting Mode).
To go into third stage of service mode data, press MENU key. Third stage data is Pixel mode setting.
To go into fourth stage of service mode data, press MENU key.Fourth stage data is Check Mode.
To go into fifth stage of service mode data, press MENU key.Fifth stage data from O01~O29 (Option Mode).

ADJUSTMENT MODE (FIRST STAGE)					
EEPROM ITEMS	OSD	DATA LENGTH	INITIAL DATA	FIX/ADJ/AUTO	REMARK
R-DRIVE	V00	0...127	31	FIX	PLS REFER TO
B-DRIVE	V00	0...127	31	FIX	ADJ ITEM FOR
R-CUT	V00	0...511	95	FIX	SCREEN AND
G-CUT	V00	0...511	95	FIX	WHITE BALANCE
B-CUT	V00	0...511	95	FIX	
RF-AGC	V01	0...127	50	ADJ	
VIF-VCO	V02	0...127	63	ADJ	
H-VCO	V03	0...15	7	ADJ	
SUB-CONTRAST	V04	0...127	65	ADJ	
SUB-COLOR	V05	0...127	63	ADJ	
SUB-BRIGHT	V06	0..255	75	ADJ	
SUB-TINT	V07	0...127	63	ADJ	
SUB-SHARPNESS	V08	0...63	44	FIX	
SUB-COLOR -YUV	V09	0...127	55	*FIX	BUS SET UP
SUB-TINT-YUV	V10	0...127	63	*FIX	BUS SET UP
V-SIZE 50 Hz	V11	0...63	38	ADJ	
V-SHIFT 50 Hz	V12	0...15	7	ADJ	
H-SHIFT 50 Hz	V13	0...127	63	ADJ	
SECAM-BR	V14	0...255	127	ADJ	
SECAM-BB	V15	0...255	127	ADJ	
SUB-VOL	V16	0...60	60	FIX	
V-SIZE 60 Hz	V17	-31...0...+31	+ 3	FIX	IF NECESSARY, ADJ
V-SHIFT 60 Hz	V18	-7...0...+7	- 3	FIX	IF NECESSARY, ADJ
H-SHIFT 60 Hz	V19	-15...0...+15	- 4	*FIX	BUS SET UP
S-TRAP (BG)	V20	0...31	15	ADJ	
S-TRAP (I)	V21	0...31	15	ADJ	
S-TRAP (DK)	V22	0...31	15	ADJ	
S-TRAP (M)	V23	0...31	15	ADJ	
S-TRAP (5.74)	V24	0...31	15	ADJ	
CUTOFF/BKGD YUV	V25			FIX	
R-DRI YUV	V25	0...127	31	FIX	
B-DRI YUV	V25	0...127	31	FIX	
R-CUT YUV	V25	0...511	95	FIX	
G-CUT YUV	V25	0...511	95	FIX	
B-CUT YUV	V25	0...511	95	FIX	
SUB-CON YUV	V26	0...127	65	FIX	
SUB-BRGHT YUV	V27	0...255	75	FIX	
VS-CORRECT	V28	0...63	31	FIX	
VC-CORRECT OFFSET	V29	-13...+13	+ 2	FIX	
V LINEARITY	V30	0...63	31	*FIX	BUS SET UP
V LINEARITY OFFSET	V31	-13...+13	+ 2	FIX	

SETTING MODE (SECOND STAGE)							
EEPROM ITEMS	FUNCTION	OSD	IC	DATA LENGTH	INITIAL DATA	FIX/ADJ/AUTO	REMARK
SIF-PAL		F01	iDREAMA	0/1	0	FIX	
SBPF WIDE		F02	iDREAMA	0...3	0	FIX	
STRAP OFF		F03	iDREAMA	0/1	0	FIX	
OM-DET		F04	iDREAMA	0/1	0	FIX	
SIF M GAIN		F05	iDREAMA	0/1	0	FIX	
TV Audio ATT [S-OUT-LVL]		F06	iDREAMA	0...127	95	FIX	
VIF-G		F07	iDREAMA	0...7	4	FIX	
AMF ON		F08	iDREAMA	0/1	0	FIX	
AMF VTH		F09	iDREAMA	0/1	0	FIX	
2DYCS BPF		F10	iDREAMA	0...3	0	FIX	
YDL	Y SIGNAL DELAY	F11	iDREAMA	0...15	7	FIX	
YDL-P	Y SIGNAL DELAY PAL	F12	iDREAMA	0...15	3	FIX	
YDL-S	Y SIGNAL DELAY SECAM	F13	iDREAMA	0...15	7	FIX	
YDL-N4	Y SIGNAL DELAY N443	F14	iDREAMA	0...15	6	FIX	
YDL-N3	Y SIGNAL DELAY N358	F15	iDREAMA	0...15	4	*FIX	BUS SET UP
YDL-AV	Y SIGNAL DELAY AV	F16	iDREAMA	0...15	7	FIX	
YDL-AV-P	Y SIGNAL DELAY PAL (AV)	F17	iDREAMA	0...15	3	FIX	
YDL-AV-S	Y SIGNAL DELAY SECAM (AV)	F18	iDREAMA	0...15	5	FIX	
YDL-AV-N4	Y SIGNAL DELAY N443 (AV)	F19	iDREAMA	0...15	5	FIX	
YDL-AV-N3	Y SIGNAL DELAY N358 (AV)	F20	iDREAMA	0...15	5	*FIX	BUS SET UP
YDL-YUV	Y SIGNAL DELAY YUV	F21	iDREAMA	0...15	7	FIX	
AP FREQ		F22	iDREAMA	0...3	0	FIX	
CORH LH		F23	iDREAMA	0...15	8	FIX	
SHP OV-P		F24	iDREAMA	-31...0...+31	0	FIX	
SHP OV-S		F25	iDREAMA	-31...0...+31	-5	FIX	
SHP OV-N4		F26	iDREAMA	-31...0...+31	0	FIX	
SHP OV-N3		F27	iDREAMA	-31...0...+31	0	FIX	
SHP OV-AV		F28	iDREAMA	-31...0...+31	+5	FIX	
SHP OV-YUV		F29	iDREAMA	-31...0...+31	+5	FIX	
SHP PRE-P		F30	iDREAMA	-31...0...+31	-10	FIX	
SHP PRE-S		F31	iDREAMA	-31...0...+31	-15	FIX	
SHP PRE-N4		F32	iDREAMA	-31...0...+31	-10	FIX	
SHP PRE-N3		F33	iDREAMA	-31...0...+31	-10	FIX	
SHP PRE-AV		F34	iDREAMA	-31...0...+31	+5	FIX	
SHP PRE-YUV		F35	iDREAMA	-31...0...+31	-5	FIX	
SHP ANT-ONII OFFSET		F36	iDREAMA	-31...0...+31	0	*FIX	BUS SET UP
BS SW [BS]		F37	iDREAMA	0/1	1	FIX	
BS ST PNT		F38	iDREAMA	0...3	3	FIX	
BS D		F39	iDREAMA	0...7	0	FIX	
BS ATK T		F40	iDREAMA	0...15	7	FIX	
BS RCV T		F41	iDREAMA	0...15	7	FIX	
ACC AMP ON		F42	iDREAMA	0/1	0	FIX	
Take-Off-TV		F43	iDREAMA	0 (BPF)/ 1(TOF)	1	FIX	
Take-Off-AV		F44	iDREAMA	0 (BPF)/ 1(TOF)	0	FIX	
Take-Off-YUV		F45	iDREAMA	0 (BPF)/ 1(TOF)	0	FIX	
BGP SEL		F46	iDREAMA	0/1	0	FIX	
P/N BGP SHIFT		F47	iDREAMA	0...3	0	FIX	
SCM BGP SHIFT		F48	iDREAMA	0...3	0	*FIX	BUS SET UP
BGP WIDTH		F49	iDREAMA	0...31	22	FIX	
BGP FRT POS		F50	iDREAMA	0...31	14	FIX	
AUTO-SCM-KIL-TV		F51	iDREAMA	0...3	1	FIX	
AUTO-SCM-KIL-AV-YUV		F52	iDREAMA	0...3	1	FIX	
Forced-SCM-KIL-TV		F53	iDREAMA	0...3	2	FIX	
Forced-SCM-KIL-AV-YUV		F54	iDREAMA	0...3	2	FIX	
SCM FO COL		F55	iDREAMA	0/1	0	FIX	
PAL ID		F56	iDREAMA	0...127	15	FIX	
NTSC ID		F57	iDREAMA	0...127	15	*FIX	BUS SET UP
ID ATK TIME		F58	iDREAMA	0...3	0	FIX	

EEPROM ITEMS	FUNCTION	OSD	IC	DATA LENGTH	INITIAL DATA	FIX/ADJ/AUTO	REMARK
ID RCV TIME		F59	iDREAMA	0...3	3	FIX	
KILLER LEVEL		F60	iDREAMA	0...127	28	*FIX	BUS SET UP
KILLER ATK TIME		F61	iDREAMA	0...3	2	*FIX	BUS SET UP
KILLER RCV TIME		F62	iDREAMA	0...3	1	FIX	
443 50 NT		F63	iDREAMA	0/1	0	FIX	
COL-AV		F64	iDREAMA	-31...0...+31	+20	*FIX	BUS SET UP
COL-P		F65	iDREAMA	-31...0...+31	0	FIX	
COL-S		F66	iDREAMA	-31...0...+31	- 25	FIX	
COL-N4		F67	iDREAMA	-31...0...+31	-7	*FIX	BUS SET UP
COL-N3		F68	iDREAMA	-31...0...+31	-7	*FIX	BUS SET UP
COL-ADJ		F69	iDREAMA	-31...0...+31	+ 15	FIX	
TINT-AV		F70	iDREAMA	-63...0...+63	0	*FIX	BUS SET UP
TINT-ADJ		F71	iDREAMA	-63...0...+63	+ 12	*FIX	BUS SET UP
TINT-YUV-ADJ		F72	iDREAMA	-63...0...+63	0	FIX	
CTI		F73	iDREAMA	0/1	1	FIX	
R-Y PHASE OFFSET		F74	iDREAMA	0...63	21	*FIX	BUS SET UP
U OFFSET [Black & White signal or YUV]		F75	iDREAMA	0...255	127	FIX	
V OFFSET [Black & White signal or YUV]		F76	iDREAMA	0...255	127	FIX	
G-DRI		F77	iDREAMA	0...127	31	*FIX	BUS SET UP
G-Y GAIN		F78	iDREAMA	0...3	3	*FIX	BUS SET UP
GAMMA		F79	iDREAMA	0...3	2	*FIX	BUS SET UP
BLUE ST		F80	iDREAMA	0...3	1	FIX	
OSD BRT LIMIT		F81	iDREAMA	0...3	0	FIX	
OSD CONT LIMIT		F82	iDREAMA	0...3	2	FIX	
ABL TH		F83	iDREAMA	0...7	0	FIX	
ABL GAIN		F84	iDREAMA	0...7	0	FIX	
DC TRAN SEL		F85	iDREAMA	0/1	0	FIX	
DC TRAN GAIN		F86	iDREAMA	0...15	0	FIX	
DC TRAN TH		F87	iDREAMA	0...127	0	FIX	
AUTO SLICE LVL-TV		F88	iDREAMA	0...15	3	FIX	
AUTO SLICE LVL-AV		F89	iDREAMA	0...15	3	FIX	
AUTO SLICE LVL-YUV		F90	iDREAMA	0...15	3	FIX	
AS GAIN-TV		F91	iDREAMA	0...3	0	FIX	
AS GAIN-AV		F92	iDREAMA	0...3	0	FIX	
AS GAIN-YUV		F93	iDREAMA	0...3	0	FIX	
V SYNC DET-TV		F94	iDREAMA	0...7	0	*FIX	BUS SET UP
V SYNC DET-AV		F95	iDREAMA	0...7	0	FIX	
V SYNC DET-YUV		F96	iDREAMA	0...7	0	FIX	
S DET ON-TV		F97	iDREAMA	0/1	1	FIX	
S DET ON-AV		F98	iDREAMA	0/1	1	FIX	
S DET ON-YUV		F99	iDREAMA	0/1	1	FIX	
V STD DET-TV		F100	iDREAMA	0/1	0	FIX	
V STD DET-AV		F101	iDREAMA	0/1	0	FIX	
V STD DET-YUV		F102	iDREAMA	0/1	0	FIX	
C SYNC LPF		F103	iDREAMA	0...3	0	FIX	
V SYNC LPF1		F104	iDREAMA	0...3	0	FIX	
V SYNC LPF2		F105	iDREAMA	0...3	3	FIX	
AFC1 GAIN-TV		F106	iDREAMA	0...7	4	*FIX	BUS SET UP
AFC1 GAIN-AV		F107	iDREAMA	0...7	4	FIX	
AFC1 GAIN-YUV		F108	iDREAMA	0...7	4	FIX	
AFC2 GAIN UP-TV		F109	iDREAMA	0...3	0	FIX	
AFC2 GAIN UP-AV		F110	iDREAMA	0...3	0	FIX	
AFC2 GAIN UP-YUV		F111	iDREAMA	0...3	0	FIX	
V PULLIN WIDE		F112	iDREAMA	0/1	0	FIX	
H PULLIN UP		F113	iDREAMA	0/1	0	FIX	
DBL COIN		F114	iDREAMA	0/1	0	FIX	
V-FREE(NO SYNC)		F115	iDREAMA	1 (off)/ 1(free-run)	1	FIX	
V-FREE2(H-FREE)		F116	iDREAMA	1 (off)/ 1(free-run)	1	FIX	
RDRV-R		F117	iDREAMA	-63...0...+63	+8	*FIX	BUS SET UP
BDRV-R		F118	iDREAMA	-63...0...+63	-10	*FIX	BUS SET UP
RDRV-B		F119	iDREAMA	-63...0...+63	-3	*FIX	BUS SET UP

EEPROM ITEMS	FUNCTION	OSD	IC	DATA LENGTH	INITIAL DATA	FIX/ADJ/AUTO	REMARK
BDRV-B		F120	iDREAMA	-63...0...+63	+13	*FIX	BUS SETUP
R-DRI YUV OFFSET		F121	iDREAMA	-63...0...+63	0	FIX	
VRAMP LPF ADJ		F122	iDREAMA	0...7	0	FIX	
B-DRI YUV OFFSET		F123	iDREAMA	-63...0...+63	0	FIX	
R-CUT YUV OFFSET		F124	iDREAMA	-63...0...+63	0	FIX	
G-CUT YUV OFFSET		F125	iDREAMA	-63...0...+63	+ 17	*FIX	BUS SET UP
B-CUT YUV OFFSET		F126	iDREAMA	-63...0...+63	+ 5	*FIX	BUS SET UP
CON YUV OFFSET		F127	iDREAMA	-63...0...+63	+ 1	FIX	
BRT YUV OFFSET		F128	iDREAMA	-63...0...+63	- 5	FIX	
Contrast OFFSET		F129	iDREAMA	-63...0...+63	0	FIX	
Bright OFFSET		F130	iDREAMA	-63...0...+63	0	FIX	
AV2 Brigtness OFFSET		F131	iDREAMA	-15...0...+15	0	FIX	
V-Demute-Delay		F132	iDREAMA	0...255	0	FIX	
S-Demute-Delay		F133	iDREAMA	0...255	0	FIX	
Pow-Storage		F134	iDREAMA	0 (disable)/ 1(enable)	1	FIX	
OSD-POS		F135	iDREAMA	0...127	0	FIX	
CP		F136	iDREAMA	0/1	1	FIX	
SMALL-SURR		F137	iDREAMA	0/1	0	FIX	
SUB-BASS	SUB BASS CONTROL	F138	iDREAMA	0(0dB), 1(-1dB), 2(-2dB), 3(-3dB), 4(0dB), 5(+1dB), 6(+2dB), 7(+3dB)	6	*FIX	BUS SET UP
SUB-TREB	SUB TREBLE CONTROL	F139	iDREAMA	0(0dB), 1(-1dB), 2(-2dB), 3(-3dB), 4(0dB), 5(+1dB), 6(+2dB), 7(+3dB)	3	FIX	
AGC-ADJ	AGC LEVEL ADJUST	F140	iDREAMA	0(AGC Off), 1(300mVrms), 2(400mVrms), 3(500Vrms), 4(600mVrms)	3	*FIX	BUS SET UP
AGC-Sw-Off	NICAM AGC SWITCH OFF	F141	iDREAMA	0(Disable, fix gain), 1(Enable AGC)	1	FIX	
AGC-Gain-Adjust		F142	iDREAMA	0...31	16	FIX	
FM-Level-Adjust		F143	iDREAMA	-15...0...+15 (please refer to Appendix A)	0	FIX	
IGR-Level-Adjust		F144	iDREAMA	-15...0...+15 (please refer to Appendix A)	+1	FIX	
NICAM-BG-Level-Adjust		F145	iDREAMA	-15...0...+15 (please refer to Appendix A)	-2	FIX	
NICAM-I-Level-Adjust		F146	iDREAMA	-15...0...+15 (please refer to Appendix A)	+3	FIX	
NICAM-DK-Level-Adjust		F147	iDREAMA	-15...0...+15 (please refer to Appendix A)	-1	FIX	
NICAM-Lower-Error-Limit		F148	iDREAMA	0...255	35	FIX	
NICAM-Upper-Error-Limit		F149	iDREAMA	0...255	70	FIX	
IGR-Gain-Adjust		F150	iDREAMA	-6...0...+7 (please refer to Appendix B)	0	FIX	
A2-ID-Response		F151	iDREAMA	0 (normal)/ 1(fast)	1	FIX	
FM-ID-Speed		F152	iDREAMA	0..3	1	FIX	
NICAM-Auto-Mute		F153	iDREAMA	0/1	0	FIX	
MER	S-BOOSTER FREQ. CHARACTERISTIC CONTROL	F154	iDREAMA	0...255	70	FIX	
MEL1	S-BOOSTER LEVEL1	F155	iDREAMA	0...255	150	FIX	
MEL2	S-BOOSTER LEVEL2	F156	iDREAMA	0...255	156	FIX	
MEL3	S-BOOSTER LEVEL3	F157	iDREAMA	0...255	163	FIX	
MEL4	S-BOOSTER LEVEL4	F158	iDREAMA	0...255	165	FIX	
MEL5	S-BOOSTER LEVEL5	F159	iDREAMA	0...255	170	FIX	

EEPROM ITEMS	FUNCTION	OSD	IC	DATA LENGTH	INITIAL DATA	FIX/ADJ/AUTO	REMARK
MEL6	S-BOOSTER LEVEL6	F160	iDREAMA	0...255	180	FIX	
S-St-Point	S-BOOSTER START POINT	F161	iDREAMA	0...60	21	FIX	
S-Sp-Point	S-BOOSTER STOP POINT	F162	iDREAMA	0...60	60	FIX	
S-Step	S-BOOSTER STEP	F163	iDREAMA	0...60	7	FIX	
S-B-BASS	S-BOOSTER BASS LIMITER (WHEN S-BOOSTER ON)	F164	iDREAMA	-30...0...+30	+15	FIX	
S-B-TREB	S-BOOSTER TREBLE LIMITER (WHEN S-BOOSTER ON)	F165	iDREAMA	-30...0...+30	+15	FIX	
S-BASS	S-BOOSTER BASS LIMITER (WHEN S-BOOSTER OFF)	F166	iDREAMA	-30...0...+30	+30	FIX	
S-TREB	S-BOOSTER TREBLE LIMITER (WHEN S-BOOSTER OFF)	F167	iDREAMA	-30...0...+30	+30	FIX	
COREL YNR1		F168	iDREAMA	0...15	5	*FIX	BUS SET UP
COREL YNR2		F169	iDREAMA	0...15	12	FIX	
COREL YNR3		F170	iDREAMA	0...15	15	FIX	
H COEF1 TV		F171	iDREAMA	0...7	3	FIX	
H COEF2 TV		F172	iDREAMA	0...7	2	FIX	
H COEF3 TV		F173	iDREAMA	0...7	1	FIX	
SF COEF1 TV		F174	iDREAMA	0...7	6	*FIX	BUS SET UP
SF COEF2 TV		F175	iDREAMA	0...7	4	*FIX	BUS SET UP
SF COEF3 TV		F176	iDREAMA	0...7	3	*FIX	BUS SET UP
SG COEF1 TV		F177	iDREAMA	0...7	1	FIX	
SG COEF2 TV		F178	iDREAMA	0...7	3	FIX	
SG COEF3 TV		F179	iDREAMA	0...7	4	FIX	
VC COEF1 TV		F180	iDREAMA	0...7	2	*FIX	BUS SET UP
VC COEF2 TV		F181	iDREAMA	0...7	2	*FIX	BUS SET UP
VC COEF3 TV		F182	iDREAMA	0...7	2	*FIX	BUS SET UP
VD COEF1 TV		F183	iDREAMA	0...7	5	*FIX	BUS SET UP
VD COEF2 TV		F184	iDREAMA	0...7	5	*FIX	BUS SET UP
VD COEF3 TV		F185	iDREAMA	0...7	5	*FIX	BUS SET UP
H COEF1 AV		F186	iDREAMA	0...7	6	FIX	
H COEF2 AV		F187	iDREAMA	0...7	4	FIX	
H COEF3 AV		F188	iDREAMA	0...7	2	FIX	
SF COEF1 AV		F189	iDREAMA	0...7	6	FIX	
SF COEF2 AV		F190	iDREAMA	0...7	4	FIX	
SF COEF3 AV		F191	iDREAMA	0...7	3	FIX	
SG COEF1 AV		F192	iDREAMA	0...7	1	FIX	
SG COEF2 AV		F193	iDREAMA	0...7	3	FIX	
SG COEF3 AV		F194	iDREAMA	0...7	4	FIX	
VC COEF1 AV		F195	iDREAMA	0...7	3	FIX	
VC COEF2 AV		F196	iDREAMA	0...7	3	FIX	
VC COEF3 AV		F197	iDREAMA	0...7	3	FIX	
VD COEF1 AV		F198	iDREAMA	0...7	4	FIX	
VD COEF2 AV		F199	iDREAMA	0...7	4	FIX	
VD COEF3 AV		F200	iDREAMA	0...7	4	FIX	
H COEF1 YUV		F201	iDREAMA	0...7	6	FIX	
H COEF2 YUV		F202	iDREAMA	0...7	4	FIX	
H COEF3 YUV		F203	iDREAMA	0...7	2	FIX	
SF COEF1 YUV		F204	iDREAMA	0...7	6	*FIX	BUS SET UP
SF COEF2 YUV		F205	iDREAMA	0...7	4	*FIX	BUS SET UP
SF COEF3 YUV		F206	iDREAMA	0...7	3	*FIX	BUS SET UP
SG COEF1 YUV		F207	iDREAMA	0...7	1	FIX	
SG COEF2 YUV		F208	iDREAMA	0...7	3	FIX	
SG COEF3 YUV		F209	iDREAMA	0...7	4	FIX	
VC COEF1 YUV		F210	iDREAMA	0...7	3	*FIX	BUS SET UP
VC COEF2 YUV		F211	iDREAMA	0...7	4	*FIX	BUS SET UP
VC COEF3 YUV		F212	iDREAMA	0...7	3	*FIX	BUS SET UP
VD COEF1 YUV		F213	iDREAMA	0...7	4	FIX	
VD COEF2 YUV		F214	iDREAMA	0...7	3	*FIX	BUS SET UP

EEPROM ITEMS	FUNCTION	OSD	IC	DATA LENGTH	INITIAL DATA	FIX/ADJ/AUTO	REMARK
VD COEF3 YUV		F215	iDREAMA	0...7	4	FIX	
NOISE BPF SEL		F216	iDREAMA	0...3	1	FIX	
NOISE DET SENSE		F217	iDREAMA	0...3	0	FIX	
NOISE DET LINE		F218	iDREAMA	0...3	0	FIX	
SIG BPF SEL		F219	iDREAMA	0...3	0	FIX	
SIG DET SENSE		F220	iDREAMA	0...3	0	FIX	
CONT SOFT		F221	iDREAMA	0...60	30	*FIX	BUS SET UP
CONT STD		F222	iDREAMA	0...60	50	FIX	
CONT DYM		F223	iDREAMA	0...60	60	FIX	
BRIGHT SOFT		F224	iDREAMA	-30...0...+30	0	FIX	
BRIGHT STD		F225	iDREAMA	-30...0...+30	0	FIX	
BRIGHT DYM		F226	iDREAMA	-30...0...+30	0	FIX	
COL SOFT		F227	iDREAMA	-30...0...+30	0	FIX	
COL STD		F228	iDREAMA	-30...0...+30	0	FIX	
COL DYM		F229	iDREAMA	-30...0...+30	+10	*FIX	BUS SET UP
SHARP SOFT		F230	iDREAMA	-30...0...+30	-10	FIX	
SHARP STD		F231	iDREAMA	-30...0...+30	0	FIX	
SHARP DYM		F232	iDREAMA	-30...0...+30	+5	FIX	
SURR SOFT		F233	iDREAMA	0(OFF) / 1(ONI) / 2(ONII)	0	FIX	
SURR STD		F234	iDREAMA	0(OFF) / 1(ONI) / 2(ONII)	0	FIX	
SURR DYM		F235	iDREAMA	0(OFF) / 1(ONI) / 2(ONII)	0	FIX	
TREBLE SOFT		F236	iDREAMA	-30...0...+30	-10	FIX	
TREBLE STD		F237	iDREAMA	-30...0...+30	0	FIX	
TREBLE DYM		F238	iDREAMA	-30..0...+30	+5	FIX	
BASS SOFT		F239	iDREAMA	-30...0...+30	-5	FIX	
BASS STD		F240	iDREAMA	-30...0...+30	0	FIX	
BASS DYM		F241	iDREAMA	-30...0...+30	+10	*FIX	BUS SET UP
S-BOOST SOFT		F242	iDREAMA	0(OFF) / 1(ON)	0	FIX	
S-BOOST STD		F243	iDREAMA	0(OFF) / 1(ON)	1	FIX	
S-BOOST DYM		F244	iDREAMA	0(OFF) / 1(ON)	1	FIX	
AC-Fail-WO-Bright		F245	iDREAMA	0...255	255	FIX	
WO-Bright-after-WO-TIME		F246	iDREAMA	0...255	255	FIX	
WO-Contrast-after-WO-TIME		F247	iDREAMA	0...127	127	FIX	
WO-Bright-before-WO-TIME		F248	iDREAMA	0...255	255	FIX	
WO-Contrast-before-WO-TIME		F249	iDREAMA	0...127	127	FIX	
WO-TIME		F250	iDREAMA	0...31	0	FIX	
BASS OFFSET		F251	iDREAMA	-30...0...+30	0	FIX	
TREBLE OFFSET		F252	iDREAMA	-30...0...+30	0	FIX	
PM500		F253	iDREAMA	0 (250) / 1 (500)	0	FIX	
OSDCLK_NCEN		F254	iDREAMA	0 (OFF) / 1 (ON)	0	FIX	
PXG_HDDLY		F255	iDREAMA	0...15	0	*FIX	BUS SET UP
FPB_FIX		F256	iDREAMA	0 (OFF) / 1 (ON)	0	FIX	
FH_JUDGE		F257	iDREAMA	0...3	0	FIX	
RC_DLY_SEL		F258	iDREAMA	0...3	0	FIX	
RC_RESET_SEL		F259	iDREAMA	0...3	0	FIX	
RC_REST0		F260	iDREAMA	0/1	0	FIX	
LBVLATCH		F261	iDREAMA	0/1	1	FIX	
S BPF WIDE (574 MHZ)		F262	iDREAMA	0...3	0	FIX	
U OFFSET-PAL		F263	iDREAMA	0...255	127	*FIX	BUS SET UP
V OFFSET-PAL		F264	iDREAMA	0...255	127	*FIX	BUS SET UP
U OFFSET-N358		F265	iDREAMA	0...255	127	*FIX	BUS SET UP
V OFFSET-N358		F266	iDREAMA	0...255	127	*FIX	BUS SET UP
U OFFSET-N443		F267	iDREAMA	0...255	127	*FIX	BUS SET UP
V OFFSET-N443		F268	iDREAMA	0...255	127	FIX	
U OFFSET-SECAM		F269	iDREAMA	0...255	127	*FIX	BUS SET UP
V OFFSET-SECAM		F270	iDREAMA	0...255	127	*FIX	BUS SET UP
YCDETVTH		F271	iDREAMA	0/1	1	FIX	
AS SPEED UP		F272	iDREAMA	0/1	1	FIX	
SECAM FSC FREE		F273	iDREAMA	0/1	1	FIX	

EEPROM ITEMS	FUNCTION	OSD	IC	DATA LENGTH	INITIAL DATA	FIX/ADJ/AUTO	REMARK
AFC1 GAIN-NOSYNC		F274	iDREAMA	00....07	0	FIX	
RF-AGC WAIT TIME		F275	iDREAMA	00....127	0	FIX	
PAL/SECAM TINT		F276	iDREAMA	00....127	63	*FIX	BUS SET UP

OPTION MODE (FIFTH STAGE)				
EEPROM ITEMS	OSD	DATA LENGTH	INITIAL DATA	REMARK
HTL	O01	0/1	0	OPTION SET UP
HTL-POS	O02	0...99,--	--	OPTION SET UP
HTL-VOL	O03	0...60,--	--	OPTION SET UP
SECAM	O04	0/1	1	OPTION SET UP
N443(RF)	O05	0/1	1	OPTION SET UP
N358(RF)	O06	0/1	1	OPTION SET UP
Force-Col	O07	0/1	0	OPTION SET UP
S-SYS	O08	1...15	15	OPTION SET UP
AV	O09	0/1	1	OPTION SET UP
AV2	O10	0/1	1	OPTION SET UP
YUV	O11	0/1	1	OPTION SET UP
S-CTRL	O12	0/1	1	OPTION SET UP
NICAM	O13	0/1	0	OPTION SET UP
A2	O14	0/1	0	OPTION SET UP
TEXT	O15	0/1	0	OPTION SET UP
BIL	O16	0/1	0	OPTION SET UP
LANG	O17	1...65	63	OPTION SET UP
SERCH-SP	O18	1...5	3	OPTION SET UP
LED-CONT	O19	0/1	0	OPTION SET UP
S-BOOSTER	O20	0/1	0	OPTION SET UP
SHARP-LOGO	O21	0/1	0	OPTION SET UP
YUV BKGD ADJ	O22	0/1	0	OPTION SET UP
WHITE BACK	O23	0/1	0	OPTION SET UP
BOOSTER	O24	0/1	1	OPTION SET UP
MESSAGE	O25	0/1	0	OPTION SET UP
LNA TUNER	O26	0...2	0	OPTION SET UP
GAME	O27	0/1	0	OPTION SET UP
CHILD LOCK	O28	0/1	1	OPTION SET UP
Idreama IC	O29	0/1	0	OPTION SET UP
Setting below only applicable to Thai Model				
LANG	O17	1...65	65	OPTION SET UP

Remark for O08 (S-SYS)
When O09=1 (B/G only), SOUND item in CH-SETTING OSD MENU will not be appeared, and
there is no showing of sound system B/G in AUTO PRESET and MANUAL PRESET OSD Menu

*** HOTEL MODE
OPERATION OF HOTEL MODE:
WHEN CHANGE SERVICE DATA O01 TO 1, HOTEL MODE IS ON
WHEN HOTEL MODE IS ON,
1. Max volume data is determined by option setting HTL-VOL (O03)
2. Channel position after POWER ON is determined by option setting HOTEL-POS (O02) (if option setting
HOTEL-POS is not set, processing is according to last position data).
3. User data updates of EEPROM regarding the video and audio control is not allowed.
4. Preset mode is disable.
5. CH SETTING menu is not available.

Pixel Generator (PXG-2)

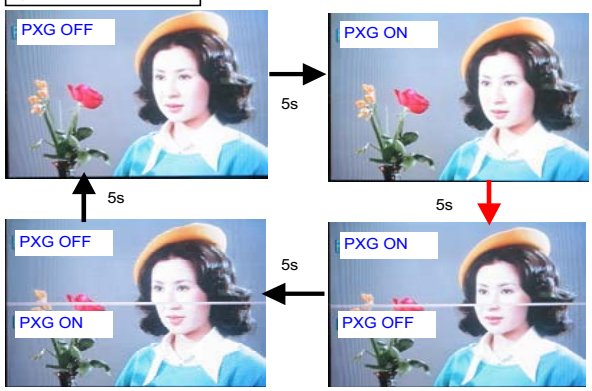
PXG-2 DEMO MODE

Concept

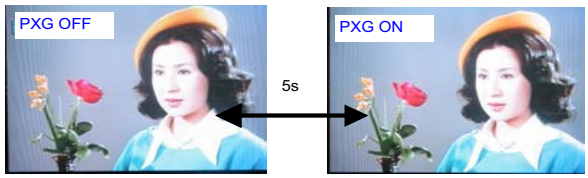
★ SHARP 21K-FD series TV that adopt high features is a step up model that first implement Pixel Generator (PXG-2) technology. SHARP has made a step ahead by producing high resolution picture in 21K-FD series and this make 21K-FD series model stands out among SHARP and other competitors 21" flat TV. With this attractive PXG-2 feature, it is believe that it will helps to increase SHARP 21" flat TV market share .

★ PXG-2 DEMO mode is integrated into 21K-FD series to let customer to understand PXG-2 more easily and the differences within PXG OFF and ON will give customer more clear image about PXG-2. PXG-2 DEMO mode will also ease the sales person in explaining PXG-2 as the selling point to the customer.

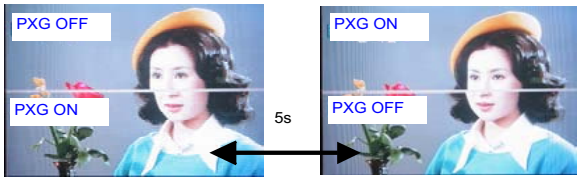
a) AUTO DEMO



b) FULL SCREEN DEMO



c) HALF SCREEN DEMO



Procedur

1)To enter PXG DEMO mode, press CH ∧ / CH ∨ (on TV set) at the same time for more than 3 seconds during TV broadcast or AV input program.

2)Once enter to PXG DEMO mode, the AUTO DEMO mode will run automatically in 4 type of display screen (each at 5 seconds interval time).

3)At any DEMO mode,
Press 2 → FULL SCREEN DEMO
3 → HALF SCREEN DEMO
1 → AUTO DEMO

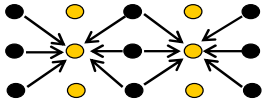
4)From any mode, press MENU/PRESET (on TV set) or MENU (on remote control) to change to the respectively PAUSE mode. To release it, press MENU/PRESET or MENU again.

5)During PAUSE mode, press ◁ or ▷ to change to other display screen.

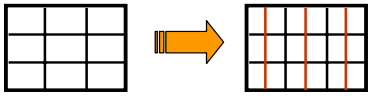
6)During any mode or PAUSE mode, press CH ∧ / CH ∨ (on TV set) at the same time for more than 3 seconds to cancel the PXG DEMO mode.

PXG-2 Technology

★ Generate imaginary data from 3 line real input signal data.



★ Double digital sampling increase the vertical pixel resolution.

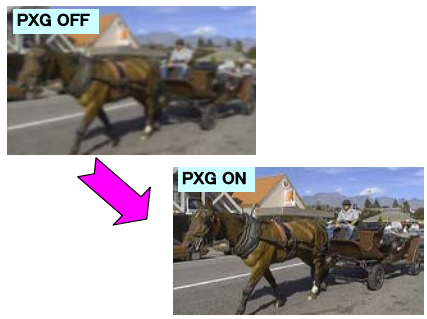


Input signal pixels/resolution

Output signal pixels/resolution

PXG-2 Output Effect

★ With PXG-2 technology, it helps to improve picture resolution thus increase picture sharpness and achieve a truly lifelike TV image.



4. ADJ ITEM: BUS SET UP (1ST & 2ND STAGE SERVICE DATA)

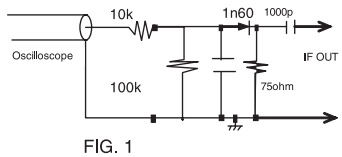
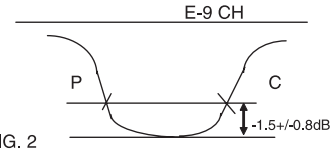
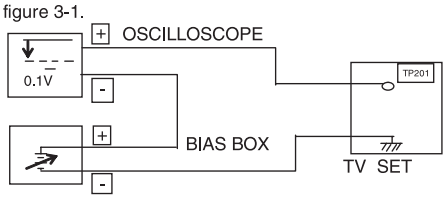
SERVICE ITEMS		21K-FD1SF					
V09	SUB-COLOR -YUV	70					
V10	SUB-TINT-YUV	59					
V19	H-SHIFT 60 Hz	-5					
V30	V LINEARITY	33					
F15	YDL-N3	5					
F20	YDL-AV-N3	9					
F36	SHP ANT-ONII OFFSET	-15					
F48	SCM BGP SHIFT	1					
F57	NTSC ID	33					
F60	KILLER LEVEL	20					
F61	KILLER ATK TIME	1					
F64	COL-AV	+10					
F67	COL-N4	+3					
F68	COL-N3	+3					
F70	TINT-AV	-12					
F71	TINT-ADJ	-6					
F74	R-Y PHASE OFFSET	21					
F77	G-DRI	63					
F78	G-Y GAIN	3					
F79	GAMMA	3					
F94	V SYNC DET-TV	3					
F106	AFC1 GAIN-TV	0					
F117	RDRV-R	0					
F118	BDRV-R	-9					
F119	RDRV-B	-6					
F120	BDRV-B	+8					
F125	G-CUT YUV OFFSET	+1					
F126	B-CUT YUV OFFSET	+5					
F130	Bright OFFSET	-10					
F138	SUB-BASS	0					
F140	AGC LEVEL ADJUST	4					
F168	COREL YNR1	5					
F174	SF COEF1 TV	7					
F175	SF COEF2 TV	5					
F176	SF COEF3 TV	4					
F180	VC COEF1 TV	1					
F181	VC COEF2 TV	1					
F182	VC COEF3 TV	1					
F183	VD COEF1 TV	7					
F184	VD COEF2 TV	7					
F185	VD COEF3 TV	7					
F204	SF COEF1 YUV	7					
F205	SF COEF2 YUV	5					
F206	SF COEF3 YUV	4					
F210	VC COEF1 YUV	2					
F211	VC COEF2 YUV	2					
F212	VC COEF3 YUV	2					
F214	VD COEF2 YUV	4					
F221	CONT SOFT	40					
F229	COL DYM	+5					
F241	BASS DYM	+5					
F255	PXG_HDDLY	+10					
F263	U OFFSET-PAL	130					
F264	V OFFSET-PAL	130					
F265	U OFFSET-N358	132					
F266	V OFFSET-N358	129					
F267	U OFFSET-N443	131					
F269	U OFFSET-SECAM	134					
F270	V OFFSET-SECAM	124					
F276	PAL/SECAM TINT	60					

5. ADJ ITEM: OPTION SET UP (5TH STAGE SERVICE DATA)

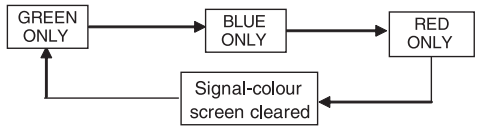
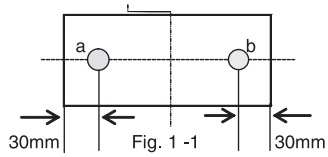
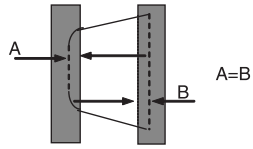
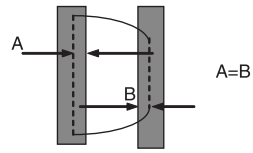
SERVICE ITEMS		21K-FD1SF					
O01	HTL	0					
O02	HTL-POS	--					
O03	HTL-VOL	--					
O04	SECAM	1					
O05	N443(RF)	1					
O06	N358(RF)	1					
O07	Force-Col	0					
O08	S-SYS	15					
O09	AV	1					
O10	AV2	1					
O11	YUV	1					
O12	S-CTRL	1					
O13	NICAM	0					
O14	A2	0					
O15	TEXT	0					
O16	BIL	0					
O17	LANG	63					
O18	SERCH-SP	3					
O19	LED-CONT	0					
O20	S-BOOSTER	0					
O21	SHARP-LOGO	0					
O22	YUV BKGD ADJ	0					
O23	WHITE BACK	0					
O24	BOOSTER	1					
O25	MESSAGE	0					
O26	LNA TUNER	0					
O27	GAME	0					
O28	CHILD LOCK	1					
O29	Idreama IC	0					

[2] ADJUSTMENT

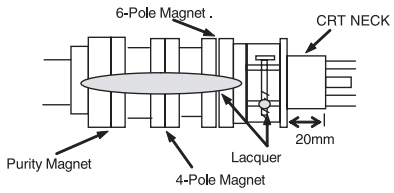
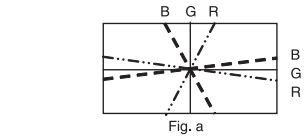
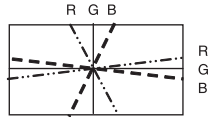
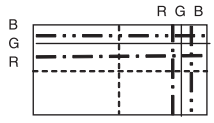
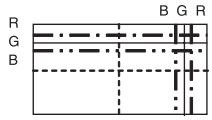
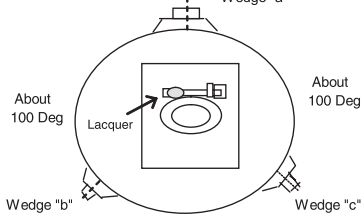
1. PIF ADJUSTMENT CHECKING

NO	ADJUSTMENT POINT	ADJUSTMENT CONDITION / PROCEDURE	WAVEFORM OR OTHERS
1	Tuner IFT (PRESET)	(1) Get the tuner ready to receive the CH. E - 9 signal, but with no signal input. Adjust the PLL data. (2) Connect the sweep generator's output cable to the tuner antenna. (RF SWEEP) (3) Adjust the sweep generator's to 80dBμV. (4) Connect the response lead (use LOW IMPEDANCE probe with wave detector ; see Fig.1) to the tuner's IF output terminal. (This terminal must have the probe alone connected). (5) Set the RF AGC to 0 - 6 V with no saturation with the waveform. (6) Adjust the tuner IF coil to obtain the waveform as shown in Fig. 2. Note : Be sure to keep the tuner cover in position during this adjustment.	 FIG. 1  FIG. 2
2	RF-AGC TAKE OVER POINT ADJUSTMENT (I2C BUS CONTROL) **(AUTO & MANUAL ADJ)**	(1) Receive "PAL COLOR BAR" signal. Signal Strength: 67 ± 1dBμV (75 ohm open) (2) Connect the oscilloscope to TP201 (Tuner's AGC Terminal) as shown in figure 3-1.  Bias Box : about 4.5V Fig. 3-1 (3) Call "**V01**" mode in service mode. Adjust the "**V01**" bus data to obtain the Tuner output pin drop **0.1~1.0V** below maximum voltage. (4) Change the antenna input signal to 73 ~ 77dBμV, and make sure there is no noise. (5) Turn up the input signal to 90 ~ 95 dBμV to be sure that there is no cross modulation beat.	*** for Auto ADJ** 1) Receive "PAL COLOR BAR" signal signal strength : 67 ± 1 dBμV (75 ohm open). 1) Go to service mode. 2) Go to service data V01, press R/C to operate auto key (Hex C1) and confirm the 'OK' display on the screen. 3) If appear NG, increase data some step and pls repeat step 2. 4) Proceed step 4 & 5 in manual mode.

2. PURITY ADJUSMENT

NO	ADJUSTMENT POINT	ADJUSTMENT CONDITION / PROCEDURE	WAVEFORM OR OTHERS
1	PURITY ADJ.	(1) Receive the GREEN -ONLY signal. Adjust the beam current to ~700μA. (2) Degauss the CRT enough with the degausing coil. NOTE: Follow the Job Instruction Sheet to adjust the magnetic field. **(Reference: Page 3-6)** (3) Maintain the purity magnet at the zero magnetic field and keep the static convergence roughly adjusted. (4) Observe the points a,b, as shown in Fig.1 - 1 through the microscope. Adjust the landings to A rank requirement. (5) Orient the raster rotation to 0 eastward. (6) Tighten up the deflection coil screws. Tightening torque : 108N ± 20N (11Kgf ± 2Kgf) (7) Make sure the CRT corners landing meet the A rank requirements. If not, stick the magnet sheet to correct it. Note : This adjustment must be done after warming up the unit for 30 minutes or longer with a beam current over 700μA. Note : Set to service mode by remote controller then press factory process R/C RGB key to change to RGB mono colour mode. * For the following colours press R/C RGB (Hex 7E) key to change. 	 Fig. 1 -1  Fig 1 -2 . Rank A (On the right of CRT)  Fig. 1 - 3 . Rank A (On the left of CRT). * Press R/C RGB key for 1 second in NORMAL MODE, the colour will change to RGB mono colour mode.

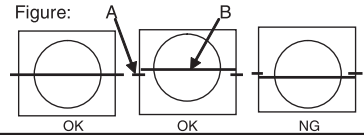
3. CONVERGENCE ADJUSTMENT

NO	ADJUSTMENT POINT	ADJUSTMENT CONDITION / PROCEDURE	WAVEFORM OR OTHERS
1	CONVERGENCE ADJ. (To be done after the purity adjustment.)	(1) Receive the "Crosshatch Pattern" signal. (2) Using the remote controller, call NORMAL mode. (Static convergence) (1) Turn the 4 - pole magnet to a proper opening angle in order to superpose the blue and red colours. (2) Turn the 6 - pole magnet to a proper opening angle in order to superpose the green colour over the blue and red colours. (Dynamic convergence) (1) Adjust the convergence on the fringes of the screen in the following steps. a) Fig. - a : Drive the wedge at point " a " and swing the deflection coil upward. b) Fig. - b : Drive the wedge at point " b " and " c " and swing the deflection coil downward. c) Fig. - c : Drive the " c " wedge deeper and swing the deflection coil rightward. d) Fig. - d : Drive the " b " wedge deeper and swing the deflection coil leftward. (2) Fix all the wedges on the CRT and apply glass tape over them. (3) Apply lacquer to the deflection yoke lock screw, magnet unit (purity, 4 - pole, 6 - pole magnets) and magnet unit lock screw. Finally received the Red - only and Blue - only signals to make sure there is no other colours on the screen.  	 Fig. a  Fig. b  Fig. c  Fig. d Wedge "a" 

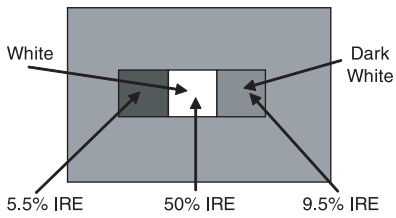
4. H-VCO, VIF-VCO & S-TRAP for ADJUSTMENT

NO	ADJUSTMENT POINT	ADJUSTMENT CONDITION / PROCEDURE	WAVEFORM OR OTHERS
1	H-VCO ADJ (I2C BUS CONTROL) **(AUTO & MANUAL ADJ)**	**(Manual Adj)** (1) In No signal (RASTER) condition. (2) Go to service mode, choose service data **V03**. (3) Connect oscilloscope to **IC801 pin15**, adj **V03** until freq become **15.625 ± 0.15 KHz**. **(Auto Adj)** (1) In No signal (RASTER) condition. (2) Go to service mode. (3) Choose service data **V03**, by pressing R/C **Auto (Hex C1)** key, OSD will appear "OK" at screen. (4) If appear "NG" pls repeat step 3.	
2	VIF-VCO ADJ (I2C BUS CONTROL) **(AUTO & MANUAL ADJ)**	**(Manual Adj)** (1) In No signal (RASTER) condition. (2) Go to service mode, choose service data **V02**. (3) Connect oscilloscope to **IC801 pin9**, adj **V02** until voltage become **1.65 ± 0.5 V.** **(Auto Adj)** (1) In No signal (RASTER) condition. (2) Go to service mode, choose service data **V02**. (3) Press the R/C **Auto (Hex C1)** key, OSD will appear "OK" at screen. (4) If appear "NG" pls repeat step 3.	*NOTE: This adjustment must be done after aging at least 3 minutes.
3	S-TRAP fo ADJ (I2C BUS CONTROL) **(AUTO & MANUAL ADJ)**	**(Manual Adj)** (1) In No signal (RASTER) condition. (2) Go to service mode, choose service data **V21**. (3) Connect oscilloscope to **TP 801**, adj **V21** until voltage become **Min**. (4) After that pls adj service data **V20**, **V22**, **V24 same as "V21"**, **V23 to "V21+1"**. **(Auto Adj)** (1) In No signal (RASTER) condition. (2) Go to service mode, choose service data **V21**. (3) Press the R/C **Auto (Hex C1)** key, OSD will appear "OK" at screen. (4) If appear "NG" pls repeat step 3.	

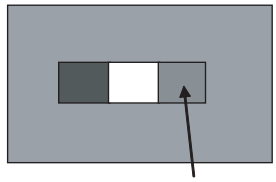
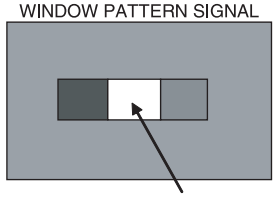
5. HORIZONTAL, VERTICAL, DEFLECTION LOOP and FOCUS ADJUSTMENT

NO	ADJUSTMENT POINT	ADJUSTMENT CONDITION / PROCEDURE	WAVEFORM OR OTHERS
1	H-SHIFT (I2C BUS CONTROL) **(to be done after purity adj)**	(1) Receive Monoscope Pattern Signal (PAL 50 Hz). (2) Choose the service data **V13**. (3) Adjust the **V13** bus data to have a balance position to spec of **A=B** (as attach drawing). (4) If cannot make it to **A=B**, adjust from the best point so that **B** slightly smaller slightly smaller than **A.**	
2	V-SHIFT (I2C BUS CONTROL) **(to be done after purity adj)**	(1) Receive Monoscope Pattern Signal (PAL 50 Hz). (2) Choose the service data **V12**. (3) Adjust **V12** bus data to have a most acceptable vertical position, the monoscope pattern should be **Balance** in vertical position. **Note: B line (Monoscope middle line) must same or nearest higher position to the A mark (Tube middle mark),refer to the attach drawing.**	Figure: 
3	V-SIZE (I2C BUS CONTROL) **(to be done after purity, V-shift adj)**	(1) Receive Monoscope Pattern Signal (PAL 50 Hz). (2) Choose the service data **V11**. (3) Adjust **V11** bus data until the overscan become **10 ± 1.5 %.** **Caution 1: Pls aging TV more than 10 minutes before adjustment.** **Caution 2: For H-shift & V-shift & V-size adj, after adj pls switch to Monoscope pattern signal (NTSC 60 Hz) to confirm all positions are the same.**	
4	SUB-SHARPNESS	(1) Confirm Service data **V08** is **44**.	
5	Focus	(1) Receive the "Monoscope Pattern" signal. (2) Press R/C to set Picture NORMAL condition. (3) Adjust the focus control to get the best focusing.	

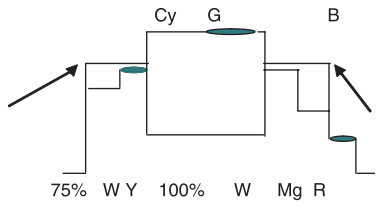
6. SCREEN, WHITE BALANCE, SUB-BRIGHTNESS & SUB-CONTRAST (1) ADJUSTMENT

NO	ADJUSTMENT POINT	ADJUSTMENT CONDITION / PROCEDURE	WAVEFORM OR OTHERS
1	SCREEN ADJUSTMENT (I2C BUS CONTROL)	(1) In window pattern signal condition (2) Go to service mode, then select V00. (3) By pressing R/C key **S-Mute (Hex E8)**, **R-D** auto switch to **31**, **B-D** auto switch to **31**, **R-C** auto switch to **95**, **G-C** auto switch to **95**, **B-C** auto switch to **95**, **Sub-brightness V06** auto switch to **75**. Y-mute & Vertical off, screen will be in **vertical cut-off** condition (4) Adjust the Screen so that cut-off line appear in low bright, then judge that whether the cut-off line appear in Red or Green or Blue color, in this condition between R-C & G-C & B-C, fix the data of the color appear in cut-off line and adj the other two cut-off data (Note 1) so that cut-off line color become white. (5) Turn the screen VR of FBT so that cut-off line just **disappear** and use R/C by pressing key **S-Mute (Hex E8)** to **disable** the Y-mute & V-cut so that picture appear in normal mode. (6) After screen Adjustment, adjust R-D to 63 and B-D to 63 for White Balance Adj.	Note 1: R-CUTOFF (R-C) UP — RC key "1" (HEX 80) R-CUTOFF (R-C) DOWN — RC key "4" (HEX 20) G-CUTOFF (G-C) UP — RC key "2" (HEX 40) G-CUTOFF (G-C) DOWN — RC key "5" (HEX A0) B-CUTOFF (B-C) UP — RC key "3" (HEX C0) B-CUTOFF (B-C) DOWN — RC key "6" (HEX 60) R-DRIVE (R-D) UP — RC key "7" (HEX E0) R-DRIVE (R-D) DOWN — RC key "Flashback" (HEX E4) B-DRIVE (B-D) UP — RC key "8" (HEX 10) B-DRIVE (B-D) DOWN — RC key "0" (HEX 50)
2	WHITE BALANCE ADJ **(to be done after screen adj)** (I2C BUS CONTROL)	(1)**WHITE (HIGH BEAM)** (In Window Pattern Signal) First use Minolta Color Analyzer CA100, let the gun point at **Dark White** position (as drawing attach), Adj **V06** until **LUMINANCE Y** become **3 cd/m2** , then let the gun point at **White** position (as drawing attach), Adj **V04** until **LUMINANCE Y** become: **170 cd/m2.** Adj the **R-D & B-D** until the axis of color temperature become **X=255, Y=255 18000°K (21K-FD1SF)** (2) **DARK WHITE (LOW BEAM)** (In Window Pattern Signal) Let the gun point at **Dark White** position, if the color temperature data shift away from the data adjusted in **step 1**, adjust **R-C, G-C & B-C but between them, first color appears in Screen adj item 1)-4 is fixed**, adj the other two so that to obtain the similar axis as above. **** Repeat step 1 & 2 to get a regulated position**	WINDOW PATTERN SIGNAL  *Note : Signal using W/B Pattern Generator SX-1006 (IWATSU) or equivalent. Window Pattern Signal output level are as above:

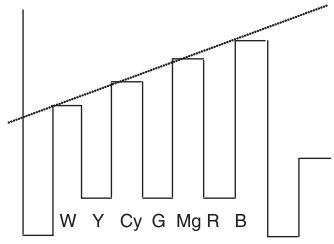
7. SCREEN, WHITE BALANCE, SUB-BRIGHTNESS & SUB-CONTRAST (2) ADJUSTMENT

NO	ADJUSTMENT POINT	ADJUSTMENT CONDITION / PROCEDURE	WAVEFORM OR OTHERS
3	SUB-BRIGHTNESS **(to be done after screen, white balance adj)** (I2C BUS CONTROL)	(1) In Window Pattern Signal condition. (2) Using Minolta Color Analyzer CA-100, let the gun point at **Dark White** position (as attach drawing), adjust **V06** Bus data until **LUMINANCE Y = 1 ± 0.2 cd/m2**	WINDOW PATTERN SIGNAL  Dark White
4	SUB-CONTRAST **(to be done after screen, white balance adj, sub-brightness adj)** (I2C BUS CONTROL)	(1) In Window Pattern Signal condition. (2) Using Minolta Color Analyzer CA-100, let the gun point at **White** position (as attach drawing), adjust **V04** Bus data until **LUMINANCE Y = 170 ± 10cd/m2** **(3) Repeat SUB-BRIGHTNESS and SUB -CONTRAST adj. until all in spec.** (4) After adjustment, if V04 ≤ 66, please re-adjust from Screen adjustment. This is to avoid low control range for user contrast adjustment.	WINDOW PATTERN SIGNAL  White
5	Beam Current Check	(1) Receive the "Monoscope Pattern" signal, SET AS Dynamic Mode. (2) Press R/C to set Picture NORMAL condition. (3) Connect the DC miliammeter between TP 603 (+) & TP 602 (-) (Full Scale: 3mA Range). (4) Beam current must be within **1450 ± 100μA**.	

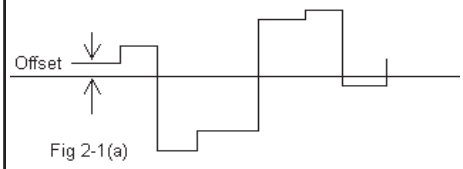
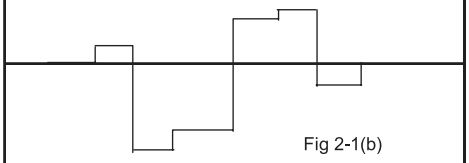
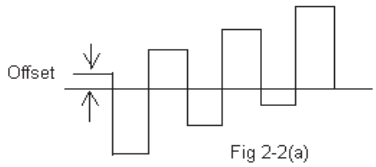
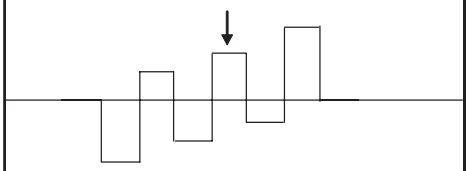
8. PAL CHROMA ADJUSTMENT

NO	ADJUSTMENT POINT	ADJUSTMENT CONDITION / PROCEDURE	WAVEFORM OR OTHERS
1	SUB COLOUR (I2C BUS CONTROL) **(to be done after sub-picture, sub-tint adj)**	(1) Receive the "PAL Color Bar" signal. (2) Press R/C to set Picture Normal condition. (3) Connect the oscilloscope to R-Amp Transistor Base **(TP 47R)** Range : **100mV/Div** (AC) (Using 10:1 Probe) Sweep Time : **10μsec/Div** (4) Using the R/C call **V05** in SERVICE mode. Adjust **V05** bus data, so that the 75% White & Red portions of PAL Color Bar be at the **same level** shown as Fig 1-1. (5) Clear the SERVICE mode.	 Cy G B 75% W Y 100% W Mg R Fig. 1-1

9. NTSC CHROMA ADJUSTMENT

NO	ADJUSTMENT POINT	ADJUSTMENT CONDITION / PROCEDURE	WAVEFORM OR OTHERS
1	SUB-TINT (I2C BUS CONTROL)	(1) Receive the "NTSC 3.58 Color Bar" signal thru AV in. (2) Connect the oscilloscope to B-AMP Transistor Base **(TP 47B)**. Range :**100mV/Div** (AC) (Use Probe 10:1) Sweep time : **10μsec/Div** (3) In Service mode, go to **V07**, then press **R/C Y-mute (Hex E4)** or **FLASHBACK** key. (4) Call the "**V07**" data in service mode. Adjust the "**V07**" bus data to obtain the waveform shown as Figure 1-1. (5) Disable **Y-Mute** by pressing key **(Hex E4)** or **FLASHBACK**, then clear the SERVICE mode.	 W Y Cy G Mg R B Fig.1-1

10. SECAM CHROMA ADJUSTMENT

NO	ADJUSTMENT POINT	ADJUSTMENT CONDITION / PROCEDURE	WAVEFORM OR OTHERS
1	SECAM BLACK LEVEL R-Y / B-Y (I2C BUS CONTROL)	1) Receive "SECAM COLOR BAR " signal. 2) In the service mode, select service data **V14**. 3) Connect oscilloscope to **TP 801**. Range: **20mV/Div**(AC) (use 10:1 probe) Sweep time: **20usec/Div** 4) Adjust the **V14** so that the offset of R-Y to minimum, shown in **Fig 2-1(b)** it means adjust the offset of between No signal line and Signal line to minimum. 5) In the service mode, select service data **V15**. 6) Connect oscilloscope to **TP 801**. Range: **20mV/Div** (AC) (use 10:1 probe) Sweep time: **20usec/Div** 7) Adjust the **V15** so that the offset of B-Y to minimum, shown in **Fig 2-2(b)** it means adjust the offset of between No signal line and Signal line to minimum.	 Fig 2-1(a)  Fig 2-1(b)  Fig 2-2(a)  Fig 2-2(b)

11. PROTECTOR OPERATION CHECKING

NO	ADJUSTMENT POINT	ADJUSTMENT CONDITION / PROCEDURE	WAVEFORM OR OTHERS
1	H, V PROTECTOR	(1) Receive "Monoscope Pattern" signal. (2) Connect output of Bias Box to **D602** cathode (C602 positive). (3) Set voltage of Bias Box to **18V** and make sure the protector is not working. (4) Set voltage of Bias Box to **27V** and make sure the protector is working.	
2	OTHER PROTECTOR	(1) Once finish rectified Electrolytic Capacitor short testing in + B line, check all possible damaged components on +B line. (Use random selected set for inspection)	

12. A/V INPUT, OUTPUT & COMPONENT IN CHECKING

NO	ADJUSTMENT POINT	ADJUSTMENT CONDITION / PROCEDURE	WAVEFORM OR OTHERS
1	VIDEO AND AUDIO OUTPUT CHECK	(1) Receive the "PAL Color Bar" signal (100% White Color Bar, Sound 400 Hz 100% Mod). (2) Terminate the Video output with a 75 ohm impedance. Make sure the output is as specified **(1.0 Vp-p ± 3 dB)**. (3) Terminate the Audio output with a 10K ohm impedance. Make sure the O/P is as specified **(1.5 Vp-p ± 3 dB)**.	
2	VIDEO AND AUDIO INPUT CHECK	(1) Using the TV/VIDEO key on the remote controller, make sure that the modes change in order of TV, AV1, AV2 & TV again and the video & audio output are according to the input terminal for each mode.	**Note :** Only for the model which have AV2 function.
		(1) Using the TV/AV key on the remote controller, make sure that the modes change in order of TV, AV, & TV again and the video & audio output are according to the input terminal for each mode. If connect input to Front and Rear AV terminal, input terminal of Front AV will be selected.	**Note :** Only for those model which have AV1 only.
3	COMPONENT IN CHECK	(1) Connect YUV & Audio signal to Component In terminal and Audio terminal. (2) Using the TV/VIDEO key on the remote controller, press it until the modes change to COMPONENT, confirm output is appear.	**Note :** Only for the model which have Component In function.

13. FUNCTION OPERATION CHECKING (1) (VIDEO & AUDIO)

NO	ADJUSTMENT POINT	ADJUSTMENT CONDITION / PROCEDURE	WAVEFORM OR OTHERS
1	CONTRAST Key	(1) Receive "Monoscope Pattern" signal. (2) Set MENU, then go into PICTURE mode to select CONTRAST. (3) Press Volume Up/Down key to check whether the CONTRAST effect is OK or not.	**Note:** Please set AV mode in DYNAMIC
2	COLOUR Key	(1) Receive "Color Bar" signal. (2) Set MENU, then go into PICTURE mode to select COLOUR. (3) Press Volume Up/Down key to check whether the COLOUR effect is OK or not.	**Note:** Please set AV mode in DYNAMIC
3	BRIGHTNESS Key	(1) Receive "Monoscope Pattern" signal. (2) Set MENU, then go into PICTURE mode to select BRIGHTNESS. (3) Press Volume Up/Down key to check whether the BRIGHTNESS effect is OK or not.	**Note:** Please set AV mode in DYNAMIC
4	TINT Key	(1) Receive the "NTSC Colour Bar" signal thru AV in. (2) Set MENU, then go into PICTURE mode to select TINT. (3) Press Volume Up/Down key to check TINT, UP for GREEN direction and DOWN for PURPLE direction whether is OK or not.	**Note:** Please set AV mode in DYNAMIC
5	SHARPNESS Key	(1) Receive "Monoscope Pattern" signal. (2) Set MENU, then go into PICTURE mode to select SHARPNESS. (3) Press Volume Up/Down key to check whether the SHARPNESS effect is OK or not.	**Note:** Please set AV mode in DYNAMIC
6	CH DISPLAY COLOUR	(1) All Ch (1~99) will have an OSD display of the channel number in green colour under AFT ON condition.	

14. FUNCTION OPERATION CHECKING (2) (VIDEO & AUDIO) CONTINUED

<table>
<tr><th>NO</th><th>ADJUSTMENT POINT</th><th>ADJUSTMENT CONDITION / PROCEDURE</th><th>WAVEFORM OR OTHERS</th></tr>
<tr><td>7</td><td>WHITE TEMP</td><td>(1) Receive "Monoscope Pattern" signal.

(2) Set MENU, then go into PICTURE mode to select WHITE TEMP.

(3) Press Volume Up/Down key to check WHITE TEMP function.
The back ground will change to (shift right) bluish and (shift left) reddish.</td><td></td></tr>
<tr><td>8</td><td>NORMAL Key</td><td>(1) Once in PICTURE or SOUND Mode, and the NORMAL key is pressed, all the settings will be preset to normal setting accordingly .
(Normal setting value for every mode)
PICTURE MODE
AV MODE — DYNAMIC — SOFT — STANDARD
CONTRAST — 60 — 30 — 50
COLOUR — +5 — 0 — 0
BRIGHTNESS — 0 — 0 — 0
TINT — Mid — Mid — Mid
SHARPNESS — +5 — -10 — 0
ANR — OFF — OFF — 0
WHITE TEMP — Mid — Mid — Mid

SOUND MODE
SURROUND — OFF — OFF — OFF
TREBLE — +5 — -10 — 0
BASS — +5 — -5 — 0
BALANCE — Mid — 0 — 0</td><td>Note:
1. In NORMAL Mode, when press NORMAL key, will appear NORMAL OSD and all setting PICTURE, SOUND functions set to NORMAL.

2. In NORMAL Mode, when press NORMAL key, AV MODE remain at current setting mode.</td></tr>
<tr><td>9</td><td>COLOUR SYSTEM</td><td>(1) Receive the "PAL COLOUR BAR" signal, press MENU, choose CH-SETTING to select COLOR modes except PAL, check the COLOUR is not working properly. Then, select the "PAL" mode. Check again its colour so that it is working properly.

(2) Receive "SECAM COLOUR BAR" signal, press MENU, choose CH-SETTING to select COLOR modes except SECAM, check the COLOUR is not working properly. Then, select the "SECAM" mode. Check again its colour so that it is working properly.

(3) Receive "NTSC 4.43" signal, press MENU, choose CH-SETTING to select COLOR modes except N443, check the COLOUR is not working properly. Then, select the N443 mode. Check again its colour so that it is working properly.

(4) Receive "NTSC 3.58" signal, press MENU, choose CH-SETTING to select COLOR modes except N358, check the COLOUR is not working properly. Then, select the N358 mode. Check again its colour so that it is working properly.

(5) Receive "NTSC 3.58 COLOUR BAR" signal thru AV, press MENU, choose CH-SETTING to select COLOR modes except N358, check the COLOUR is not working properly. Then, select the N358 mode. Check again its colour so that it is working properly.</td><td></td></tr>
</table>

15. FUNCTION OPERATION CHECKING (3) (VIDEO & AUDIO) CONTINUED

NO	ADJUSTMENT POINT	ADJUSTMENT CONDITION / PROCEDURE	WAVEFORM OR OTHERS
10	SURROUND	(1) Receive "music" sound signal. (2) Set MENU, then go into SOUND MENU to select SURROUND. (3) Press VOLUME UP/DOWN key to check SURROUND I, II and OFF effect.	**Note:** Please set the AV mode in DYNAMIC
11	TREBLE	(1) Receive "music" sound signal. (2) Set MENU, then go into SOUND MENU to select TREBLE. (3) Press VOLUME UP/DOWN key to check whether the TREBLE effect is OK or not.	**Note:** Please set the AV mode in DYNAMIC
12	BASS	(1) Receive "music" sound signal. (2) Set MENU, then go into SOUND MENU to select BASS. (3) Press VOLUME UP/DOWN key to check whether the BASS effect is OK or not.	**Note:** Please set the AV mode in DYNAMIC
13	BALANCE	(1) Receive mono-tone signal. (2) Set MENU, then go into SOUND MENU to select BALANCE. (3) Press VOLUME UP/DOWN key to check whether the left to right BALANCE effect is OK or not.	**Note:** Please set the AV mode in DYNAMIC
14	SOUND SYSTEM	(1) Receive "PAL-D/K" signal, press MENU, choose CH-SETTING then go into SOUND mode to select B/G, I, M. Check the sound output is not working properly. Select D/K and check the sound output to make sure it is working properly. (2) Receive "PAL-I" signal, press MENU, choose CH-SETTING then go into SOUND mode to select B/G, D/K, M. Check the sound output is not working properly. Select I and check the sound output to make sure it is working properly. (3) Receive "PAL-B/G" signal, press MENU, choose CH-SETTING then go into SOUND mode to select I, D/K, M. Check the sound output is not working properly. Select B/G and check the sound output to make sure it is working properly. (4) Receive "NTSC-M" signal, press MENU, choose CH-SETTING then go into SOUND mode to select B/G, I, D/K. Check the sound output is not working properly. Select M and check the sound output to make sure it is working properly.	

16. FUNCTION OPERATION CHECKING (3) (VIDEO & AUDIO) CONTINUED

NO	ADJUSTMENT POINT	ADJUSTMENT CONDITION / PROCEDURE	WAVEFORM OR OTHERS
15	NOISE MUTE CHECKING	(1) Receive "PAL COLOUR BAR" signal. (2) Turn up the volume control to maximum, make sure the sound is heard from the speakers. Then put the unit in no signal state. (3) Check the sound mute is effective. (4) Finally turn sound level of CTV to minimum.	
16	OSD LANGUAGE QUANTITY CHECK	(1) Check OSD LANGUAGE quantity and type for respect model.	

MODEL	QUANTITY	ENGLISH	RUSSIAN	CHINESE	FRENCH	ARABIC	MALAY
21K-FD1SF	6	O	O	O	O	O	O

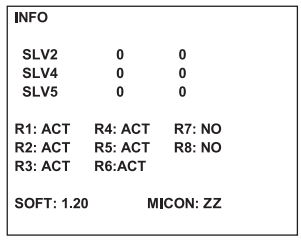
17. HEADPHONE JACK CHECKING

NO	ADJUSTMENT POINT	ADJUSTMENT CONDITION / PROCEDURE	WAVEFORM OR OTHERS
1	HEADPHONE OUTPUT CHECKING	(1) Receive PAL COLOUR BAR with SOUND 400Hz, 100% MODULATION (± 50kHz Dev). (2) Maximum volume, and check the headphone output with 400Hz sound and no sound output from speaker.	

18. SHOCK TEST CHECKING

NO	ADJUSTMENT POINT	ADJUSTMENT CONDITION / PROCEDURE	WAVEFORM OR OTHERS
1	SHOCK TEST	1. Hit at the top of TV set for two time. 2. Check TV set not damage and TV operation operate correctly.	

19. ROM CORRECTION CHECKING

NO	ADJUSTMENT POINT	ADJUSTMENT CONDITION / PROCEDURE	WAVEFORM OR OTHERS
1	ROM CORRECTION CHECK	(1) Go to SERVICE mode, press "MENU" key until the SERVICE mode display as in Figure 3 appeared. (2) Check the ROM CORRECTION status by monitoring the screen, follow the model's setting. Micon Version : RH-IXB525WJZZ (Software Ver.1.20)	 Figure 3

R1	R2	R3	R4	R5	R6	R7	R8
ACT	ACT	ACT	ACT	ACT	ACT	NO	NO

Note: For Nicam model, SLV5 will appear.
For IGR model, SLV6 will appear.

CHAPTER 4. MEMORY MAP

[1] MEMORY MAP

SLAVE ADDRESS : A0(00-FF) A2(100-1FF) A4(200-2FF) A6(300-3FF) A8(400-4FF) AA(500-5FF)

ADDRESS	DATA								MICON	EEPROM	EEPROM	CHASSIS		CTV FINAL		LAST INITIAL	REMARK
(HEX)	D7	D6	D5	D4	D3	D2	D1	D0	DEFAULT	RANGE	WRITE(CPU)	CHECK DATA	CHECK TYPE	CHECK DATA	CHECK TYPE	SETTING DATA	
00	EEPROM INITIALIZATION JUDGEMENT BYTE-0								7B	00-FF							* depend on Ixcode, current this model ix IXBS25 so set as 7B 75 72 75.
01	EEPROM INITIALIZATION JUDGEMENT BYTE-1								75	00-FF							
02	EEPROM INITIALIZATION JUDGEMENT BYTE-2								72	00-FF							
03	EEPROM INITIALIZATION JUDGEMENT BYTE-3								75	00-FF							
04	ROM VERSION								00	00-FF							
05	SOFTWARE VERSION (HIGH BYTE)								01	00-FF							*depend on final release version. If version 0.70 so it
06	SOFTWARE VERSION (LOW BYTE)								00	00-FF							
07																	
08	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 0
09	TUNING FREQUENCY (HIGH BYTE)									00-FF							
0A	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 1
0B	TUNING FREQUENCY (HIGH BYTE)									00-FF							
0C	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 2
0D	TUNING FREQUENCY (HIGH BYTE)									00-FF							
0E	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 3
0F	TUNING FREQUENCY (HIGH BYTE)									00-FF							
10	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 4
11	TUNING FREQUENCY (HIGH BYTE)									00-FF							
12	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 5
13	TUNING FREQUENCY (HIGH BYTE)									00-FF							
14	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 6
15	TUNING FREQUENCY (HIGH BYTE)									00-FF							
16	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 7
17	TUNING FREQUENCY (HIGH BYTE)									00-FF							
18	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 8
19	TUNING FREQUENCY (HIGH BYTE)									00-FF							
1A	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 9
1B	TUNING FREQUENCY (HIGH BYTE)									00-FF							
1C	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 10
1D	TUNING FREQUENCY (HIGH BYTE)									00-FF							
1E	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 11
1F	TUNING FREQUENCY (HIGH BYTE)									00-FF							
20	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 12
21	TUNING FREQUENCY (HIGH BYTE)									00-FF							
22	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 13
23	TUNING FREQUENCY (HIGH BYTE)									00-FF							
24	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 14
25	TUNING FREQUENCY (HIGH BYTE)									00-FF							
26	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 15
27	TUNING FREQUENCY (HIGH BYTE)									00-FF							
28	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 16
29	TUNING FREQUENCY (HIGH BYTE)									00-FF							
2A	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 17
2B	TUNING FREQUENCY (HIGH BYTE)									00-FF							
2C	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 18
2D	TUNING FREQUENCY (HIGH BYTE)									00-FF							
2E	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 19
2F	TUNING FREQUENCY (HIGH BYTE)									00-FF							
30	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 20
31	TUNING FREQUENCY (HIGH BYTE)									00-FF							
32	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 21
33	TUNING FREQUENCY (HIGH BYTE)									00-FF							
34	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 22
35	TUNING FREQUENCY (HIGH BYTE)									00-FF							
36	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 23
37	TUNING FREQUENCY (HIGH BYTE)									00-FF							
38	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 24
39	TUNING FREQUENCY (HIGH BYTE)									00-FF							
3A	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 25
3B	TUNING FREQUENCY (HIGH BYTE)									00-FF							
3C	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 26
3D	TUNING FREQUENCY (HIGH BYTE)									00-FF							
3E	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 27
3F	TUNING FREQUENCY (HIGH BYTE)									00-FF							
MODEL									MODEL								
LETTER NO.									LETTER NO.								

MEMORY MAP (Continued)

SLAVE ADDRESS : A0(00-FF) A2(100-1FF) A4(200-2FF) A6(300-3FF) A8(400-4FF) AA(500-5FF)

ADDRESS (HEX)	DATA D7	D6	D5	D4	D3	D2	D1	D0	MICON DEFAULT	EEPROM RANGE	EEPROM WRITE(CPU)	CHASSIS CHECK DATA	CHASSIS CHECK TYPE	CTV FINAL CHECK DATA	CTV FINAL CHECK TYPE	LAST INITIAL SETTING DATA	REMARK
40	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 28
41	TUNING FREQUENCY (HIGH BYTE)									00-FF							
42	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 29
43	TUNING FREQUENCY (HIGH BYTE)									00-FF							
44	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 30
45	TUNING FREQUENCY (HIGH BYTE)									00-FF							
46	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 31
47	TUNING FREQUENCY (HIGH BYTE)									00-FF							
48	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 32
49	TUNING FREQUENCY (HIGH BYTE)									00-FF							
4A	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 33
4B	TUNING FREQUENCY (HIGH BYTE)									00-FF							
4C	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 34
4D	TUNING FREQUENCY (HIGH BYTE)									00-FF							
4E	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 35
4F	TUNING FREQUENCY (HIGH BYTE)									00-FF							
50	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 36
51	TUNING FREQUENCY (HIGH BYTE)									00-FF							
52	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 37
53	TUNING FREQUENCY (HIGH BYTE)									00-FF							
54	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 38
55	TUNING FREQUENCY (HIGH BYTE)									00-FF							
56	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 39
57	TUNING FREQUENCY (HIGH BYTE)									00-FF							
58	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 40
59	TUNING FREQUENCY (HIGH BYTE)									00-FF							
5A	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 41
5B	TUNING FREQUENCY (HIGH BYTE)									00-FF							
5C	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 42
5D	TUNING FREQUENCY (HIGH BYTE)									00-FF							
5E	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 43
5F	TUNING FREQUENCY (HIGH BYTE)									00-FF							
60	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 44
61	TUNING FREQUENCY (HIGH BYTE)									00-FF							
62	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 45
63	TUNING FREQUENCY (HIGH BYTE)									00-FF							
64	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 46
65	TUNING FREQUENCY (HIGH BYTE)									00-FF							
66	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 47
67	TUNING FREQUENCY (HIGH BYTE)									00-FF							
68	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 48
69	TUNING FREQUENCY (HIGH BYTE)									00-FF							
6A	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 49
6B	TUNING FREQUENCY (HIGH BYTE)									00-FF							
6C	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 50
6D	TUNING FREQUENCY (HIGH BYTE)									00-FF							
6E	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 51
6F	TUNING FREQUENCY (HIGH BYTE)									00-FF							
70	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 52
71	TUNING FREQUENCY (HIGH BYTE)									00-FF							
72	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 53
73	TUNING FREQUENCY (HIGH BYTE)									00-FF							
74	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 54
75	TUNING FREQUENCY (HIGH BYTE)									00-FF							
76	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 55
77	TUNING FREQUENCY (HIGH BYTE)									00-FF							
78	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 56
79	TUNING FREQUENCY (HIGH BYTE)									00-FF							
7A	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 57
7B	TUNING FREQUENCY (HIGH BYTE)									00-FF							
7C	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 58
7D	TUNING FREQUENCY (HIGH BYTE)									00-FF							
7E	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 59
7F	TUNING FREQUENCY (HIGH BYTE)									00-FF							
MODEL									MODEL								
LETTER NO.									LETTER NO.								

MEMORY MAP (Continued)

SLAVE ADDRESS : A0(00-FF) A2(100-1FF) A4(200-2FF) A6(300-3FF) A8(400-4FF) AA(500-5FF)

ADDRESS	DATA								MICON	EEPROM	EEPROM	CHASSIS		CTV FINAL		LAST INITIAL	
(HEX)	D7	D6	D5	D4	D3	D2	D1	D0	DEFAULT	RANGE	WRITE(CPU)	CHECK DATA	CHECK TYPE	CHECK DATA	CHECK TYPE	SETTING DATA	REMARK
80	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 60
81	TUNING FREQUENCY (HIGH BYTE)									00-FF							
82	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 61
83	TUNING FREQUENCY (HIGH BYTE)									00-FF							
84	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 62
85	TUNING FREQUENCY (HIGH BYTE)									00-FF							
86	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 63
87	TUNING FREQUENCY (HIGH BYTE)									00-FF							
88	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 64
89	TUNING FREQUENCY (HIGH BYTE)									00-FF							
8A	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 65
8B	TUNING FREQUENCY (HIGH BYTE)									00-FF							
8C	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 66
8D	TUNING FREQUENCY (HIGH BYTE)									00-FF							
8E	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 67
8F	TUNING FREQUENCY (HIGH BYTE)									00-FF							
90	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 68
91	TUNING FREQUENCY (HIGH BYTE)									00-FF							
92	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 69
93	TUNING FREQUENCY (HIGH BYTE)									00-FF							
94	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 70
95	TUNING FREQUENCY (HIGH BYTE)									00-FF							
96	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 71
97	TUNING FREQUENCY (HIGH BYTE)									00-FF							
98	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 72
99	TUNING FREQUENCY (HIGH BYTE)									00-FF							
9A	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 73
9B	TUNING FREQUENCY (HIGH BYTE)									00-FF							
9C	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 74
9D	TUNING FREQUENCY (HIGH BYTE)									00-FF							
9E	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 75
9F	TUNING FREQUENCY (HIGH BYTE)									00-FF							
A0	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 76
A1	TUNING FREQUENCY (HIGH BYTE)									00-FF							
A2	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 77
A3	TUNING FREQUENCY (HIGH BYTE)									00-FF							
A4	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 78
A5	TUNING FREQUENCY (HIGH BYTE)									00-FF							
A6	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 79
A7	TUNING FREQUENCY (HIGH BYTE)									00-FF							
A8	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 80
A9	TUNING FREQUENCY (HIGH BYTE)									00-FF							
AA	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 81
AB	TUNING FREQUENCY (HIGH BYTE)									00-FF							
AC	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 82
AD	TUNING FREQUENCY (HIGH BYTE)									00-FF							
AE	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 83
AF	TUNING FREQUENCY (HIGH BYTE)									00-FF							
B0	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 84
B1	TUNING FREQUENCY (HIGH BYTE)									00-FF							
B2	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 85
B3	TUNING FREQUENCY (HIGH BYTE)									00-FF							
B4	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 86
B5	TUNING FREQUENCY (HIGH BYTE)									00-FF							
B6	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 87
B7	TUNING FREQUENCY (HIGH BYTE)									00-FF							
B8	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 88
B9	TUNING FREQUENCY (HIGH BYTE)									00-FF							
BA	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 89
BB	TUNING FREQUENCY (HIGH BYTE)									00-FF							
BC	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 90
BD	TUNING FREQUENCY (HIGH BYTE)									00-FF							
BE	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 91
BF	TUNING FREQUENCY (HIGH BYTE)									00-FF							
MODEL									MODEL								
LETTER NO.									LETTER NO.								

MEMORY MAP (Continued)

SLAVE ADDRESS : A0(00-FF) A2(100-1FF) A4(200-2FF) A6(300-3FF) A8(400-4FF) AA(500-5FF)

ADDRESS	DATA								MICON	EEPROM	EEPROM	CHASSIS		CTV FINAL		LAST INITIAL	REMARK
(HEX)	D7	D6	D5	D4	D3	D2	D1	D0	DEFAULT	RANGE	WRITE(CPU)	CHECK DATA	CHECK TYPE	CHECK DATA	CHECK TYPE	SETTING DATA	
C0	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 92
C1	TUNING FREQUENCY (HIGH BYTE)									00-FF							
C2	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 93
C3	TUNING FREQUENCY (HIGH BYTE)									00-FF							
C4	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 94
C5	TUNING FREQUENCY (HIGH BYTE)									00-FF							
C6	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 95
C7	TUNING FREQUENCY (HIGH BYTE)									00-FF							
C8	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 96
C9	TUNING FREQUENCY (HIGH BYTE)									00-FF							
CA	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 97
CB	TUNING FREQUENCY (HIGH BYTE)									00-FF							
CC	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 98
CD	TUNING FREQUENCY (HIGH BYTE)									00-FF							
CE	TUNING FREQUENCY (LOW BYTE)									00-FF							POS 99
CF	TUNING FREQUENCY (HIGH BYTE)									00-FF							
D0		FAVORITE CHANNEL 1							0A	00-65							POS 10
D1		FAVORITE CHANNEL 2							14	00-65							POS 20
D2		FAVORITE CHANNEL 3							1E	00-65							POS 30
D3		FAVORITE CHANNEL 4							28	00-65							POS 40
D4	POS 7	POS 6	POS 5	POS4	POS 3	POS 2	POS 1	POS 0	FF	00-FF							
D5	POS15	POS14	POS13	POS12	POS11	POS10	POS 9	POS 8	FF	00-FF							
D6	POS23	POS22	POS21	POS20	POS19	POS18	POS17	POS16	FF	00-FF							
D7	POS31	POS30	POS29	POS28	POS27	POS26	POS25	POS24	FF	00-FF							
D8	POS39	POS38	POS37	POS36	POS35	POS34	POS33	POS32	FF	00-FF							
D9	POS47	POS46	POS45	POS44	POS43	POS42	POS41	POS40	FF	00-FF							
DA	POS55	POS54	POS53	POS52	POS51	POS50	POS49	POS48	FF	00-FF							
DB	POS63	POS62	POS61	POS60	POS59	POS58	POS57	POS56	FF	00-FF							1= AFT ON, 0=AFT OFF
DC	POS71	POS70	POS69	POS68	POS67	POS66	POS65	POS64	FF	00-FF							
DD	POS79	POS78	POS77	POS76	POS75	POS74	POS73	POS72	FF	00-FF							
DE	POS87	POS86	POS85	POS84	POS83	POS82	POS81	POS80	FF	00-FF							
DF	POS95	POS94	POS93	POS92	POS91	POS90	POS89	POS88	FF	00-FF							
E0					POS99	POS98	POS97	POS96	0F	00-0F							
E1	S-Booster (SOFT)	S-Booster (DYM)	~~ANR~~	LOCK TV	LOCK GAME	**ANR**		S-Booster (STD)	41	00-1F							**S-Booster(SOFT)=F242 S-Booster(STD)=F243 S-Booster(DYM)=F244**
E2	Blue Back	1/2 digit	TEXT			LANGUAGE			41	00-FF							
E3	AV MODE		LAST VOLUME						40	00-BC							00 : STANDARD 01 : DYNAMIC 10 : SOFT
E4	POS 7	POS 6	POS 5	POS4	POS 3	POS 2	POS 1	POS 0	01	00-FF							
E5	POS15	POS14	POS13	POS12	POS11	POS10	POS 9	POS 8	00	00-FF							
E6	POS23	POS22	POS21	POS20	POS19	POS18	POS17	POS16	00	00-FF							
E7	POS31	POS30	POS29	POS28	POS27	POS26	POS25	POS24	00	00-FF							
E8	POS39	POS38	POS37	POS36	POS35	POS34	POS33	POS32	00	00-FF							
E9	POS47	POS46	POS45	POS44	POS43	POS42	POS41	POS40	00	00-FF							
EA	POS55	POS54	POS53	POS52	POS51	POS50	POS49	POS48	00	00-FF							1= SKIP ON, 0=SKIP OFF
EB	POS63	POS62	POS61	POS60	POS59	POS58	POS57	POS56	00	00-FF							
EC	POS71	POS70	POS69	POS68	POS67	POS66	POS65	POS64	00	00-FF							
ED	POS79	POS78	POS77	POS76	POS75	POS74	POS73	POS72	00	00-FF							
EE	POS87	POS86	POS85	POS84	POS83	POS82	POS81	POS80	00	00-FF							
EF	POS95	POS94	POS93	POS92	POS91	POS90	POS89	POS88	00	00-FF							
F0					POS99	POS98	POS97	POS96	00	00-0F							
F1	POWER								AA	AA(On), 55(Off)							
F2	ON TIMER VOLUME								FF	00-3C, FF							
F3	ON TIMER CHANNEL								FF	00-65, FF							
F4	SLV2 (HIGH)								00	00-FF							
F5	SLV2 (LOW)								00	00-FF							
F6	SLV4 (HIGH)								00	00-FF							
F7	SLV4 (LOW)								00	00-FF							
F8	SLV5 (HIGH)								00	00-FF							
F9	SLV5 (LOW)								00	00-FF							
FA	SLV6 (HIGH)								00	00-FF							
FB	SLV6 (LOW)								00	00-FF							
FC					**Message Screen**	**Message Display**	TV/AV		00	0(TV), 1(AV1), 2(AV2)							
FD		LAST CHANNEL POSITION							01	00-63							
FE	FLASH BACK POSITION								01	00-FF							
FF																	
MODEL									MODEL								
LETTER NO.									LETTER NO.								

MEMORY MAP (Continued)

SLAVE ADDRESS : A0(00-FF) A2(100-1FF) A4(200-2FF) A6(300-3FF) A8(400-4FF) AA(500-5FF)

ADDRESS	DATA								MICON	EEPROM	EEPROM	CHASSIS		CTV FINAL		LAST INITIAL	REMARK
(HEX)	D7	D6	D5	D4	D3	D2	D1	D0	DEFAULT	RANGE	WRITE(CPU)	CHECK DATA	CHECK TYPE	CHECK DATA	CHECK TYPE	SETTING DATA	
100	ANT-BOOSTER (POS0)		S-SYSTEM (POS0)			C-SYSTEM (POS0)			00	00-34							
101	ANT-BOOSTER (POS1)		S-SYSTEM (POS1)			C-SYSTEM (POS1)			00	00-34							S-SYSTEM
102	ANT-BOOSTER (POS2)		S-SYSTEM (POS2)			C-SYSTEM (POS2)			00	00-34							0: B/G
103	ANT-BOOSTER (POS3)		S-SYSTEM (POS3)			C-SYSTEM (POS3)			00	00-34							1: I
104	ANT-BOOSTER (POS4)		S-SYSTEM (POS4)			C-SYSTEM (POS4)			00	00-34							2: D/K
105	ANT-BOOSTER (POS5)		S-SYSTEM (POS5)			C-SYSTEM (POS5)			00	00-34							3: M
106	ANT-BOOSTER (POS6)		S-SYSTEM (POS6)			C-SYSTEM (POS6)			00	00-34							
107	ANT-BOOSTER (POS7)		S-SYSTEM (POS7)			C-SYSTEM POS7)			00	00-34							C-SYSTEM
108	ANT-BOOSTER (POS8)		S-SYSTEM (POS8)			C-SYSTEM (POS8)			00	00-34							0: AUTO
109	ANT-BOOSTER (POS9)		S-SYSTEM (POS9)			C-SYSTEM (POS9)			00	00-34							1: PAL
10A	ANT-BOOSTER (POS10)		S-SYSTEM (POS10)			C-SYSTEM (POS10)			00	00-34							2:SECAM
10B	ANT-BOOSTER (POS11)		S-SYSTEM (POS11)			C-SYSTEM (POS11)			00	00-34							3: N443
10C	ANT-BOOSTER (POS12)		S-SYSTEM (POS12)			C-SYSTEM (POS12)			00	00-34							4:N358
10D	ANT-BOOSTER (POS13)		S-SYSTEM (POS13)			C-SYSTEM (POS13)			00	00-34							
10E	ANT-BOOSTER (POS14)		S-SYSTEM (POS14)			C-SYSTEM (POS14)			00	00-34							ANT-BOOSTER
10F	ANT-BOOSTER (POS15)		S-SYSTEM (POS15)			C-SYSTEM (POS15)			00	00-34							0: OFF
110	ANT-BOOSTER (POS16)		S-SYSTEM (POS16)			C-SYSTEM (POS16)			00	00-34							1: ON I
111	ANT-BOOSTER (POS17)		S-SYSTEM (POS17)			C-SYSTEM (POS17)			00	00-34							2: ON II
112	ANT-BOOSTER (POS18)		S-SYSTEM (POS18)			C-SYSTEM (POS18)			00	00-34							
113	ANT-BOOSTER (POS19)		S-SYSTEM (POS19)			C-SYSTEM (POS19)			00	00-34							
114	ANT-BOOSTER (POS20)		S-SYSTEM (POS20)			C-SYSTEM (POS20)			00	00-34							
115	ANT-BOOSTER (POS21)		S-SYSTEM (POS21)			C-SYSTEM (POS21)			00	00-34							
116	ANT-BOOSTER (POS22)		S-SYSTEM (POS22)			C-SYSTEM (POS22)			00	00-34							
117	ANT-BOOSTER (POS23)		S-SYSTEM (POS23)			C-SYSTEM (POS23)			00	00-34							
118	ANT-BOOSTER (POS24)		S-SYSTEM (POS24)			C-SYSTEM (POS24)			00	00-34							
119	ANT-BOOSTER (POS25)		S-SYSTEM (POS25)			C-SYSTEM (POS25)			00	00-34							
11A	ANT-BOOSTER (POS26)		S-SYSTEM (POS26)			C-SYSTEM (POS26)			00	00-34							
11B	ANT-BOOSTER (POS27)		S-SYSTEM (POS27)			C-SYSTEM (POS27)			00	00-34							
11C	ANT-BOOSTER (POS28)		S-SYSTEM (POS28)			C-SYSTEM (POS28)			00	00-34							
11D	ANT-BOOSTER (POS29)		S-SYSTEM (POS29)			C-SYSTEM (POS29)			00	00-34							
11E	ANT-BOOSTER (POS30)		S-SYSTEM (POS30)			C-SYSTEM (POS30)			00	00-34							
11F	ANT-BOOSTER (POS31)		S-SYSTEM (POS31)			C-SYSTEM (POS31)			00	00-34							
120	ANT-BOOSTER (POS32)		S-SYSTEM (POS32)			C-SYSTEM (POS32)			00	00-34							
121	ANT-BOOSTER (POS33)		S-SYSTEM (POS33)			C-SYSTEM (POS33)			00	00-34							
122	ANT-BOOSTER (POS34)		S-SYSTEM (POS34)			C-SYSTEM (POS34)			00	00-34							
123	ANT-BOOSTER (POS35)		S-SYSTEM (POS35)			C-SYSTEM (POS35)			00	00-34							
124	ANT-BOOSTER (POS36)		S-SYSTEM (POS36)			C-SYSTEM (POS36)			00	00-34							
125	ANT-BOOSTER (POS37)		S-SYSTEM (POS37)			C-SYSTEM (POS37)			00	00-34							
126	ANT-BOOSTER (POS38)		S-SYSTEM (POS38)			C-SYSTEM (POS38)			00	00-34							
127	ANT-BOOSTER (POS39)		S-SYSTEM (POS39)			C-SYSTEM (POS39)			00	00-34							
128	ANT-BOOSTER (POS40)		S-SYSTEM (POS40)			C-SYSTEM (POS40)			00	00-34							
129	ANT-BOOSTER (POS41)		S-SYSTEM (POS41)			C-SYSTEM (POS41)			00	00-34							
12A	ANT-BOOSTER (POS42)		S-SYSTEM (POS42)			C-SYSTEM (POS42)			00	00-34							
12B	ANT-BOOSTER (POS43)		S-SYSTEM (POS43)			C-SYSTEM (POS43)			00	00-34							
12C	ANT-BOOSTER (POS44)		S-SYSTEM (POS44)			C-SYSTEM (POS44)			00	00-34							
12D	ANT-BOOSTER (POS45)		S-SYSTEM (POS45)			C-SYSTEM (POS45)			00	00-34							
12E	ANT-BOOSTER (POS46)		S-SYSTEM (POS46)			C-SYSTEM (POS46)			00	00-34							
12F	ANT-BOOSTER (POS47)		S-SYSTEM (POS47)			C-SYSTEM (POS47)			00	00-34							
130	ANT-BOOSTER (POS48)		S-SYSTEM (POS48)			C-SYSTEM (POS48)			00	00-34							
131	ANT-BOOSTER (POS49)		S-SYSTEM (POS49)			C-SYSTEM (POS49)			00	00-34							
132	ANT-BOOSTER (POS50)		S-SYSTEM (POS50)			C-SYSTEM (POS50)			00	00-34							
133	ANT-BOOSTER (POS51)		S-SYSTEM (POS51)			C-SYSTEM (POS51)			00	00-34							
134	ANT-BOOSTER (POS52)		S-SYSTEM (POS52)			C-SYSTEM (POS52)			00	00-34							
135	ANT-BOOSTER (POS53)		S-SYSTEM (POS53)			C-SYSTEM (POS53)			00	00-34							
136	ANT-BOOSTER (POS54)		S-SYSTEM (POS54)			C-SYSTEM (POS54)			00	00-34							
137	ANT-BOOSTER (POS55)		S-SYSTEM (POS55)			C-SYSTEM (POS55)			00	00-34							
138	ANT-BOOSTER (POS56)		S-SYSTEM (POS56)			C-SYSTEM (POS56)			00	00-34							
139	ANT-BOOSTER (POS57)		S-SYSTEM (POS57)			C-SYSTEM (POS57)			00	00-34							
13A	ANT-BOOSTER (POS58)		S-SYSTEM (POS58)			C-SYSTEM (POS58)			00	00-34							
13B	ANT-BOOSTER (POS59)		S-SYSTEM (POS59)			C-SYSTEM (POS59)			00	00-34							
13C	ANT-BOOSTER (POS60)		S-SYSTEM (POS60)			C-SYSTEM (POS60)			00	00-34							
13D	ANT-BOOSTER (POS61)		S-SYSTEM (POS61)			C-SYSTEM (POS61)			00	00-34							
13E	ANT-BOOSTER (POS62)		S-SYSTEM (POS62)			C-SYSTEM (POS62)			00	00-34							
13F	ANT-BOOSTER (POS63)		S-SYSTEM (POS63)			C-SYSTEM (POS63)			00	00-34							
MODEL									MODEL								
LETTER NO.									LETTER NO.								

MEMORY MAP (Continued)

SLAVE ADDRESS : A0(00-FF) A2(100-1FF) A4(200-2FF) A6(300-3FF) A8(400-4FF) AA(500-5FF)

ADDRESS	DATA								MICON	EEPROM	EEPROM	CHASSIS		CTV FINAL		LAST INITIAL	
(HEX)	D7	D6	D5	D4	D3	D2	D1	D0	DEFAULT	RANGE	WRITE(CPU)	CHECK DATA	CHECK TYPE	CHECK DATA	CHECK TYPE	SETTING DATA	REMARK
140	ANT-BOOSTER (POS64)		S-SYSTEM (POS64)			C-SYSTEM (POS64)			00	00-9C							
141	ANT-BOOSTER (POS65)		S-SYSTEM (POS65)			C-SYSTEM (POS65)			00	00-34							
142	ANT-BOOSTER (POS66)		S-SYSTEM (POS66)			C-SYSTEM (POS66)			00	00-34							
143	ANT-BOOSTER (POS67)		S-SYSTEM (POS67)			C-SYSTEM (POS67)			00	00-34							
144	ANT-BOOSTER (POS68)		S-SYSTEM (POS68)			C-SYSTEM (POS68)			00	00-34							
145	ANT-BOOSTER (POS69)		S-SYSTEM (POS69)			C-SYSTEM (POS69)			00	00-34							
146	ANT-BOOSTER (POS70)		S-SYSTEM (POS70)			C-SYSTEM (POS70)			00	00-34							
147	ANT-BOOSTER (POS71)		S-SYSTEM (POS71)			C-SYSTEM POS71)			00	00-34							
148	ANT-BOOSTER (POS72)		S-SYSTEM (POS72)			C-SYSTEM (POS72)			00	00-34							
149	ANT-BOOSTER (POS73)		S-SYSTEM (POS73)			C-SYSTEM (POS73)			00	00-34							
14A	ANT-BOOSTER (POS74)		S-SYSTEM (POS74)			C-SYSTEM (POS74)			00	00-34							
14B	ANT-BOOSTER (POS75)		S-SYSTEM (POS75)			C-SYSTEM (POS75)			00	00-34							
14C	ANT-BOOSTER (POS76)		S-SYSTEM (POS76)			C-SYSTEM (POS76)			00	00-34							
14D	ANT-BOOSTER (POS77)		S-SYSTEM (POS77)			C-SYSTEM (POS77)			00	00-34							
14E	ANT-BOOSTER (POS78)		S-SYSTEM (POS78)			C-SYSTEM (POS78)			00	00-34							
14F	ANT-BOOSTER (POS79)		S-SYSTEM (POS79)			C-SYSTEM (POS79)			00	00-34							
150	ANT-BOOSTER (POS80)		S-SYSTEM (POS80)			C-SYSTEM (POS80)			00	00-34							
151	ANT-BOOSTER (POS81)		S-SYSTEM (POS81)			C-SYSTEM (POS81)			00	00-34							
152	ANT-BOOSTER (POS82)		S-SYSTEM (POS82)			C-SYSTEM (POS82)			00	00-34							
153	ANT-BOOSTER (POS83)		S-SYSTEM (POS83)			C-SYSTEM (POS83)			00	00-34							
154	ANT-BOOSTER (POS84)		S-SYSTEM (POS84)			C-SYSTEM (POS84)			00	00-34							
155	ANT-BOOSTER (POS85)		S-SYSTEM (POS85)			C-SYSTEM (POS85)			00	00-34							
156	ANT-BOOSTER (POS86)		S-SYSTEM (POS86)			C-SYSTEM (POS86)			00	00-34							
157	ANT-BOOSTER (POS87)		S-SYSTEM (POS87)			C-SYSTEM (POS87)			00	00-34							
158	ANT-BOOSTER (POS88)		S-SYSTEM (POS88)			C-SYSTEM (POS88)			00	00-34							
159	ANT-BOOSTER (POS89)		S-SYSTEM (POS89)			C-SYSTEM (POS89)			00	00-34							
15A	ANT-BOOSTER (POS90)		S-SYSTEM (POS90)			C-SYSTEM (POS90)			00	00-34							
15B	ANT-BOOSTER (POS91)		S-SYSTEM (POS91)			C-SYSTEM (POS91)			00	00-34							
15C	ANT-BOOSTER (POS92)		S-SYSTEM (POS92)			C-SYSTEM (POS92)			00	00-34							
15D	ANT-BOOSTER (POS93)		S-SYSTEM (POS93)			C-SYSTEM (POS93)			00	00-34							
15E	ANT-BOOSTER (POS94)		S-SYSTEM (POS94)			C-SYSTEM (POS94)			00	00-34							
15F	ANT-BOOSTER (POS95)		S-SYSTEM (POS95)			C-SYSTEM (POS95)			00	00-34							
160	ANT-BOOSTER (POS96)		S-SYSTEM (POS96)			C-SYSTEM (POS96)			00	00-34							
161	ANT-BOOSTER (POS97)		S-SYSTEM (POS97)			C-SYSTEM (POS97)			00	00-34							
162	ANT-BOOSTER (POS98)		S-SYSTEM (POS98)			C-SYSTEM (POS98)			00	00-34							
163	ANT-BOOSTER (POS99)		S-SYSTEM (POS99)			C-SYSTEM (POS99)			00	00-34							
164		C-SYSTEM (AV2)				C-SYSTEM (AV1)			00	00-44							
165																	
166	YUV (O11)	AV2 (O10)	AV (O09)	Forced-Col (O07)	N358-TV (O06)	N443-TV (O05)	SECAM (O04)	HOTEL (O01)	EE	00-FF							
167	Sharp-logo (O21)	S-Booster (O20)	LED-CONT (O19)	BIL (O16)	TEXT (O15)	A2 (O14)	NICAM (O13)	S-CTR (O12)	01	00-FF							
168	IDREAMA (O29)	CHILD LOCK (O28)	GAME (O27)		MESSAGE (O25)	ANT-BOOSTER (O24)	WHITE BACK (O23)	YUV BKGD (O22)	44	00-7F							
169					M (O08)	D/K (O08)	I (O08)	B/G (O08)	0F	01-0F							
16A		Thai (017)	**Arabic (O17)**	**Malay (O17)**	**Russian (O17)**	France (O17)	**Chinese (O17)**	Engilish (O17)	3F	01-3F							
16B						SEARCH SPEED (O18)			03	01-05							
16C	HOTEL CHANNEL POSITION (O02)								FF	00-63, FF							
16D	HOTEL VOLUME (O03)								FF	00-3C, FF							
16E							**LNA TUNER (O26)**		00	00-02							
16F	ACC AMP ON (F42)	BS SW (F37)	AMF VTH (F09)	AMF ON (F08)	SIF M GAIN (F05)	OM DET (F04)	STRAP OFF(F03)	SIF-PAL (F01)	40	00-FF							
170	DC TRAN SEL (F85)	CTI (F73)	443 50 NT (F63)	SCM FO COL (F55)	BGP SEL (F46)	TAKE-OFF-YUV (F45)	TAKE-OFF-AV (F44)	TAKE-OFF-TV (F43)	41	00-FF							
171	V PULLIN UP (F113)	V PULLIN WIDE (F112)	V-STD YUV (F102)	V-STD-AV (F101)	V-STD-TV (F100)	S DET ON - YUV (F99)	S DET ON - AV (F98)	S DET ON - TV (F97)	07	00-FF							
172	A2-ID-Response (F151)	AGC-SW-OFF (F141)	SMALL-SURR (F137)	PLL-CP (F136)	POW-STORAGE (F134)	V-FREE2 (F116)	V-FREE (F115)	DBL COIN (F114)	DE	00-FF							
173	RC_REST0 (F260)	FPB_FIX (F256)	OSDCLK_NCEN (F254)	PM500 (F253)	S-BOOST DYM (F244)	S-BOOST STD (F243)	S-BOOST SOFT (F242)	NICAM-AUTO MUTE (F153)	0C	00-0F							
174					SECAM FSC FREE (F273)	AS SPEED UP (F272)	YCDETVTH (F271)	LBVLATCH (F261)	0F	00-0F							
175		VIF-G (F07)					SBPF WIDE (F02)		40	00-73							
176	YDL (F11)						2DYCS BPF (F10)		70	00-F3							
177	YDL-S (F13)					YDL-P (F12)			73	00-FF							
178	YDL-N3 (F15)					YDL- N4 (F14)			46	00-FF							
179	YDL-AV-P (F17)					YDL-AV (F16)			37	00-FF							
17A	YDL-AV-N4 (F19)					YDL-AV-S (F18)			55	00-FF							
17B	YDL-YUV (F21)					YDL-AV-N3 (F20)			75	00-FF							
17C	CORH LH (F23)						AP FREQ (F22)		80	00-F3							
17D		BS D (F39)					BS ST PNT (F38)		03	00-33							
17E	BS RCV T (F41)					BS ATK T (F40)			77	00-FF							
17F			SCM BGP SHIF (F48)				P/N BGP SHIF (F47)		00	00-33							
MODEL									MODEL								
LETTER NO.									LETTER NO.								

MEMORY MAP (Continued)

SLAVE ADDRESS : A0(00-FF) A2(100-1FF) A4(200-2FF) A6(300-3FF) A8(400-4FF) AA(500-5FF)

ADDRESS	DATA								MICON	EEPROM	EEPROM	CHASSIS		CTV FINAL		LAST INITIAL	
(HEX)	D7	D6	D5	D4	D3	D2	D1	D0	DEFAULT	RANGE	WRITE(CPU)	CHECK DATA	CHECK TYPE	CHECK DATA	CHECK TYPE	SETTING DATA	REMARK
180			AUTO-SCM-KIL-AV-YUV (F52)				AUTO-SCM-KIL-TV (F51)		11	00-33							
181			FORCE-SCM-KIL-AV-YUV (F54)				FORCE-SCM-KIL-TV (F53)		22	00-33							
182			ID RCV TIME (F59)				ID ATK TIME (F58)		30	00-33							
183			KILLER RCV TIME (F62)				KILLER ATK TIME (F61)		12	00-33							
184							SBF WIDE _574 (F262)		00	00-03							
185			GAMMA (F79)				G-Y GAIN (F78)		23	00-33							
186			OSD BRT LIMIT (F81)				BLUE ST (F80)		01	00-33							
187			ABL TH (F83)				OSD CONT LIMIT (F82)		02	00-73							
188			DC TRAN GAIN (F86)				ABL GAIN (F84)		00	00-F7							
189			AUTO SLICE LVL-AV (F89)				AUTO SLICE LVL-TV (F88)		33	00-FF							
18A			AS GAIN-TV (F91)				AUTO SLICE LVL-YUV (F90)		03	00-3F							
18B			AS GAIN-YUV (F93)				AS GAIN-AV (F92)		00	00-33							
18C			V SYNC DET-AV (F95)				V SYNC DET-TV (F94)		00	00-77							
18D			C SYNC LPF (F103)				V SYNC DET-YUV (F96)		00	00-37							
18E			V SYNC LPF2 (F105)				V SYNC LPF1 (F104)		30	00-33							
18F			AFC1 GAIN AV (F107)				AFC1 GAIN TV (F106)		44	00-77							
190			AFC2 GAIN UP-TV (F109)				AFC1 GAIN YUV (F108)		04	00-37							
191			AFC2 GAIN UP-YUV (F111)				AFC2 GAIN UP-AV (F110)		00	00-33							
192			SUB-BASS (F138)				VRAMP LPF ADJ (F122)		60	00-77							
193			ACG-ADJ (F140)				SUB-TREB (F139)		33	00-77							
194			FM-ID-SPEED (F152)				IGR-GAIN-ADJUST (F150)		16	00-3F							
195			COREL YNR2 (F169)				COREL YNR1 (F168)		C9	00-FF							
196			H COEF1 TV (F171)				COREL YNR3 (F170)		3F	00-7F							
197			H COEF3 TV (F173)				H COEF2 TV (F172)		12	00-77							
198			SF COEF2 TV (F175)				SF COEF1 TV (F174)		46	00-77							
199			SG COEF1 TV (F177)				SF COEF3 TV (F176)		13	00-77							
19A			SG COEF3 TV (F179)				SG COEF2 TV (F178)		43	00-77							
19B			VC COEF2 TV (F181)				VC COEF1 TV (F180)		22	00-77							
19C			VD COEF1 TV (F183)				VC COEF3 TV (F182)		52	00-77							
19D			VD COEF3 TV (F185)				VD COEF2 TV (F184)		55	00-77							
19E			H COEF2 AV (F187)				H COEF1 AV (F186)		46	00-77							
19F			SF COEF1 AV (F189)				H COEF3 AV (F188)		62	00-77							
1A0			SF COEF3 AV (F191)				SF COEF2 AV (F190)		34	00-77							
1A1			SG COEF2 AV (F193)				SG COEF1 AV (F192)		31	00-77							
1A2			VC COEF1 AV (F195)				SG COEF3 AV (F194)		34	00-77							
1A3			VC COEF3 AV (F197)				VC COEF2 AV (F196)		33	00-77							
1A4			VD COEF2 AV (F199)				VD COEF1 AV (F198)		44	00-77							
1A5			H COEF1 YUV (F201)				VD COEF3 AV (F200)		64	00-77							
1A6			H COEF3 YUV (F203)				H COEF2 YUV (F202)		24	00-77							
1A7			SF COEF2 YUV (F205)				SF COEF1 YUV (F204)		46	00-77							
1A8			SG COEF1 YUV (F207)				SF COEF3 YUV (F206)		13	00-77							
1A9			SG COEF3 YUV (F209)				SG COEF2 YUV (F208)		43	00-77							
1AA			VC COEF2 YUV (F211)				VC COEF1 YUV (F210)		43	00-77							
1AB			VD COEF1 YUV (F213)				VC COEF3 YUV (F212)		43	00-77							
1AC			VD COEF3 YUV (F215)				VD COEF2 YUV (F214)		43	00-77							
1AD			NOISE DET SENSE (F217)				NOISE BPF SEL (F216)		01	00-33							
1AE			SIF BPF SEL (F219)				NOISE DET LINE (F218)		00	00-33							
1AF			SURR SOFT (F233)				SIF DET SENSE (F220)		00	00-33							
1B0			SURR DYM (F235)				SURR STD (F234)		00	00-33							
1B1			FH_JUDGE (F257)				PXG_HDDLY(F255)		00	00-3F							
1B2			RC_RESET_SEL (F259)				RC_DLY_SEL (F258)		00	00-33							
1B3			TV AUDIO ATT (F06)						5F	00-7F							
1B4			SHP-OV-P (F24)						1F	00-3E							
1B5			SHP-OV-S (F25)						1A	00-3E							
1B6			SHP-OV-N4 (F26)						1F	00-3E							
1B7			SHP-OV-N3 (F27)						1F	00-3E							
1B8			SHP-OV-AV (F28)						24	00-3E							
1B9			SHP-OV-YUV (F29)						24	00-3E							
1BA			SHP-PRE-P (F30)						15	00-3E							
1BB			SHP-PRE-S (F31)						10	00-3E							
1BC			SHP-PRE-N4 (F32)						15	00-3E							
1BD			SHP-PRE-N3 (F33)						15	00-3E							
1BE			SHP-PRE-AV (F34)						24	00-3E							
1BF			SHP-PRE-YUV (F35)						1A	00-3E							
MODEL									MODEL								
LETTER NO.									LETTER NO.								

MEMORY MAP (Continued)

SLAVE ADDRESS : A0(00-FF) A2(100-1FF) A4(200-2FF) A6(300-3FF) A8(400-4FF) AA(500-5FF)

ADDRESS	DATA								MICON	EEPROM	EEPROM	CHASSIS		CTV FINAL		LAST INITIAL	
(HEX)	D7	D6	D5	D4	D3	D2	D1	D0	DEFAULT	RANGE	WRITE(CPU)	CHECK DATA	CHECK TYPE	CHECK DATA	CHECK TYPE	SETTING DATA	REMARK
1C0			SHP-ANT-ONII OFFSET (F36)						1F	00-3E							
1C1				BGP WIDTH (F49)					16	00-1F							
1C2				BGP FRT POS (F50)					0E	00-1F							
1C3			PAL ID (F56)						0F	00-7F							
1C4			NTSC ID (F57)						0F	00-7F							
1C5			KILLER LEVEL (F60)						1C	00-7F							
1C6				COL-AV (F64)					33	00-3E							
1C7				COL-P (F65)					1F	00-3E							
1C8				COL-S (F66)					06	00-3E							
1C9				COL-N4 (F67)					18	00-3E							
1CA				COL-N3 (F68)					18	00-3E							
1CB				COL-ADJ (F69)					2E	00-3E							
1CC			TINT-AV (F70)						3F	00-7E							
1CD			TINT-ADJ (F71)						4B	00-7E							
1CE			TINT-YUV-ADJ (F72)						3F	00-7E							
1CF				R-Y PHASE OFFSET (F74)					15	00-3F							
1D0			G-DRI (F77)						1F	00-7F							
1D1			DC TRAN TH (F87)						00	00-7F							
1D2			RDRV-R (F117)						47	00-7E							
1D3			BDRV-R (F118)						35	00-7E							
1D4			RDRV-B (F119)						3C	00-7E							
1D5			BDRV-B (F120)						4C	00-7E							
1D6			R-DRI YUV OFFSET (F121)						3F	00-7E							
1D7																	
1D8			B-DRI YUV OFFSET (F123)						3F	00-7E							
1D9			R-CUT OFF YUV OFFSET (F124)						3F	00-7E							
1DA			G-CUT OFF YUV OFFSET (F125)						50	00-7E							
1DB			B-CUT OFF YUV OFFSET (F126)						44	00-7E							
1DC			CON YUV OFFSET (F127)						40	00-7E							
1DD	BRT YUV OFFSET (F128)								3A	00-7E							
1DE	CONTRAST OFFSET (F129)								3F	00-7E							
1DF	BRIGHT OFFSET (F130)								3F	00-7E							
1E0	AV2 -BRIGHTNESS OFFSET (F131)								0F	00-1E							
1E1	VIDEO-DEMUTE-DELAY (F132)								00	00-FF							
1E2	SOUND-DEMUTE-DELAY (F133)								00	00-FF							
1E3			OSD-POS (F135)						00	00-7F							
1E4				AGC-GAIN-ADJUST (F142)					10	00-1F							
1E5				FM-LEVEL-ADJUST (F143)					0F	00-1E							
1E6				IGR-LEVEL-ADJUST (F144)					10	00-1E							
1E7				NICAM-BG-LEVEL-ADJUST (F145)					0D	00-1E							
1E8				NICAM-I-LEVEL-ADJUST (F146)					12	00-1E							
1E9				NICAM-DK-LEVEL-ADJUST (F147)					0E	00-1E							
1EA	NICAM-LOWER-ERROR-LIMIT (F148)								23	00-FF							
1EB	NICAM-UPPER-ERROR-LIMIT (F149)								46	00-FF							
1EC	MER (F154)								46	00-FF							
1ED	MEL1 (F155)								96	00-FF							
1EE	MEL2 (F156)								9C	00-FF							
1EF	MEL3 (F157)								A3	00-FF							
1F0	MEL4 (F158)								A5	00-FF							
1F1	MEL5 (F159)								AA	00-FF							
1F2	MEL6 (F160)								B4	00-FF							
1F3			S-Start Point (F161)						15	00-3C							
1F4			S-Stop Point (F162)						3C	00-3C							
1F5			S-Step (F163)						07	00-3C							
1F6			S-B-BASS (F164)						2D	00-3C							
1F7			S-B-TREB (F165)						2D	00-3C							
1F8			S-BASS (F166)						3C	00-3C							
1F9			S-TREB (F167)						3C	00-3C							
1FA			CONT SOFT (F221)						1E	00-3C							
1FB			CONT STD (F222)						32	00-3C							
1FC			CONT DYM (F223)						3C	00-3C							
1FD			BRIGHT SOFT (F224)						1E	00-3C							
1FE			BRIGHT STD (F225)						1E	00-3C							
1FF			BRIGHT DYM (F226)						1E	00-3C							
MODEL									MODEL								
LETTER NO.									LETTER NO.								

MEMORY MAP (Continued)

SLAVE ADDRESS : A0(00-FF) A2(100-1FF) A4(200-2FF) A6(300-3FF) A8(400-4FF) AA(500-5FF)

ADDRESS	DATA								MICON	EEPROM	EEPROM	CHASSIS		CTV FINAL		LAST INITIAL	
(HEX)	D7	D6	D5	D4	D3	D2	D1	D0	DEFAULT	RANGE	WRITE(CPU)	CHECK DATA	CHECK TYPE	CHECK DATA	CHECK TYPE	SETTING DATA	REMARK
200	COL SOFT (F227)								1E	00-3C							
201	COL STD (F228)								1E	00-3C							
202	COL DYM (F229)								28	00-3C							
203	SHARP SOFT (F230)								14	00-3C							
204	SHARP STD (F231)								1E	00-3C							
205	SHARP DYM (F232)								23	00-3C							
206	TREBLE SOFT (F236)								14	00-3C							
207	TREBLE STD (F237)								1E	00-3C							
208	TREBLE DYM (F238)								23	00-3C							
209	BASS SOFT (F239)								19	00-3C							
20A	BASS STD (F240)								1E	00-3C							
20B	BASS DYM (F241)								28	00-3C							
20C	AC-FAIL-WO-Bright (F245)								FF	00-FF							
20D	WO-Bright-after-WO-TIME (F246)								FF	00-FF							
20E	WO-CONTRAST-after-WO-TIME (F247)								7F	00-7F							
20F	WO-Bright-before-WO-TIME (F248)								FF	00-FF							
210	WO-CONTRAST-before-WO-TIME (F249)								7F	00-7F							
211	WO-TIME (F250)								00	00-1F							
212	BASS OFFSET (F251)								1E	00-3C							
213	TREBLE OFFSET (F252)								1E	00-3C							
214	U OFFSET-Black&White Signal or YUV (F75)								7F	00-FF							
215	V OFFSET-Black&White Signal or YUV (F76)								7F	00-FF							
216	U OFFSET-PAL (F263)								7F	00-FF							
217	V OFFSET-PAL (F264)								7F	00-FF							
218	U OFFSET-N358 (F265)								7F	00-FF							
219	V OFFSET-N358 (F266)								7F	00-FF							
21A	U OFFSET-N443 (F267)								7F	00-FF							
21B	V OFFSET-N443 (F268)								7F	00-FF							
21C	U OFFSET-SECAM (F269)								7F	00-FF							
21D	V OFFSET-SECAM (F270)								7F	00-FF							
21E	AFC1 GAIN-NOSYNC(F274)								00	00-07							
21F	RF-AGC WAIT TIME(F275)								00	00-7F							
220	PAL/SECAM TINT(F276)								3F	00-7F							
221																	
222																	
223	PassWord 1st Digit				PassWord 2nd Digit				00	00-99							
224	PassWord 3rd Digit				PassWord 4th Digit				00	00-99							
225																	
226			B-CUT YUV<D8> (V00)	G-CUT YUV<D8> (V00)	R-CUT YUV<D8> (V00)	B-CUT<D8> (V00)	G-CUT<D8> (V00)	R-CUT<D8> (V00)	00	00-3F							
227	R-DRIVE (V00)								1F	00-7F							
228	B-DRIVE (V00)								1F	00-7F							
229	R-CUTOFF (V00)								5F	00-FF							
22A	G-CUTOFF (V00)								5F	00-FF							
22B	B-CUTOFF (V00)								5F	00-FF							
22C	RF-AGC (V01)								32	00-7F							
22D	VIF-VCO (V02)								3F	00-7F							
22E	H-VCO (V03)								07	00-0F							
22F	SUB CONTRAST (V04)								41	00-7F							
230	SUB COLOUR (V05)								3F	00-7F							
231	SUB BRIGHTNESS (V06)								4B	00-FF							
232	SUB TINT (V07)								3F	00-7F							
233	SUB SHARPNESS (V08)								2C	00-3F							
234	SUB-COLOUR-YUV (V09)								37	00-7F							
235	SUB-TINT-YUV (V10)								3F	00-7F							
236	V-SIZE-50Hz (V11)								26	00-3F							
237	V-SHIFT-50Hz (V12)								07	00-0F							
238	H-SHIFT-50Hz (V13)								3F	00-7F							
239	SECAM BR (V14)								7F	00-FF							
23A	SECAM BB (V15)								7F	00-FF							
23B	SUB VOLUME (V16)								3C	00-3C							
23C	V-SIZE-60Hz (V17)								22	00-3E							
23D	V-SHIFT-60Hz (V18)								04	00-0E							
23E	H-SHIFT-60Hz (V19)								0B	00-1E							
23F	S-TRAP-BG (V20)								0F	00-1F							
MODEL									MODEL								
LETTER NO.									LETTER NO.								

MEMORY MAP (Continued)

SLAVE ADDRESS : A0(00-FF) A2(100-1FF) A4(200-2FF) A6(300-3FF) A8(400-4FF) AA(500-5FF)

ADDRESS	DATA								MICON	EEPROM	EEPROM	CHASSIS		CTV FINAL		LAST INITIAL	
(HEX)	D7	D6	D5	D4	D3	D2	D1	D0	DEFAULT	RANGE	WRITE(CPU)	CHECK DATA	CHECK TYPE	CHECK DATA	CHECK TYPE	SETTING DATA	REMARK
240				S-TRAP-I (V21)					0F	00-1F							
241				S-TRAP-DK (V22)					0F	00-1F							
242				S-TRAP-M (V23)					0F	00-1F							
243				S-TRAP-574 (V24)					0F	00-1F							
244			R-DRIVE YUV (V25)						1F	00-7F							
245			B-DRIVE YUV (V25)						1F	00-7F							
246			R-CUTOFF YUV (V25)						5F	00-FF							
247			G-CUTOFF YUV (V25)						5F	00-FF							
248			B-CUTOFF YUV (V25)						5F	00-FF							
249			SUB CONTRAST YUV (V26)						41	00-7F							
24A			SUB BRIGHTNESS YUV (V27)						4B	00-FF							
24B			VS-CORRECT (V28)						1F	00-3F							
24C			VS-CORRECT OFFSET (V29)						0F	00-1A							
24D			V-LINEARITY (V30)						1F	00-3F							
24E			V-LINEARITY OFFSET (V31)						0F	00-1A							
24F			SOFT CONTRAST						1E	00-3C							**F221**
250			SOFT COLOUR						1E	00-3C							**F227**
251			SOFT BRIGHTNESS						1E	00-3C							**F224**
252			SOFT TINT						1E	00-3C							
253			SOFT SHARPNESS						14	00-3C							**F230**
254							SOFT WHITE TEMP.		01	00-02							
255							SOFT SURROUND MODE		00	00-02							**F233**
256			SOFT TREBLE						14	00-3C							**F236**
257			SOFT BASS						19	00-3C							**F239**
258			SOFT BALANCE						1E	00-3C							
259			STD CONTRAST						32	00-3C							**F222**
25A			STD COLOUR						1E	00-3C							**F228**
25B			STD BRIGHTNESS						1E	00-3C							**F225**
25C			STD TINT						1E	00-3C							
25D			STD SHARPNESS						1E	00-3C							**F231**
25E							STD WHITE TEMP.		01	00-02							
25F							STD SURROUND MODE		00	00-02							**F234**
260			STD TREBLE						1E	00-3C							**F237**
261			STD BASS						1E	00-3C							**F240**
262			STD BALANCE						1E	00-3C							
263			DYM CONTRAST						3C	00-3C							**F223**
264			DYM COLOUR						28	00-3C							**F229**
265			DYM BRIGHTNESS						1E	00-3C							**F226**
266			DYM TINT						1E	00-3C							
267			DYM SHARPNESS						23	00-3C							**F232**
268							DYM WHITE TEMP.		01	00-02							
269							DYM SURROUND MODE		00	00-02							**F235**
26A			DYM TREBLE						23	00-3C							**F238**
26B			DYM BASS						28	00-3C							**F241**
26C			DYM BALANCE						1E	00-3C							
26D						IPXG MODE			04	0(off), 1(1), 2(2), 3(3), 4(auto)							
26E	IPXG LEV N L								1E	00-FF							
26F	IPXG LEV N H								5A	00-FF							
270	IPXG LEV S L								3F	00-FF							
271	IPXG LEV S H								8C	00-FF							
272	IPXG COUNT								0A	00-FF							
273																	
274	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 0
275	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 1
276	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 2
277	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 3
278	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 4
279	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 5
27A	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 6
27B	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 7
27C	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 8
27D	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 9
27E	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 10
27F	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 11
MODEL									MODEL								
LETTER NO.									LETTER NO.								

MEMORY MAP (Continued)

SLAVE ADDRESS : A0(00-FF) A2(100-1FF) A4(200-2FF) A6(300-3FF) A8(400-4FF) AA(500-5FF)

ADDRESS	DATA								MICON	EEPROM	EEPROM	CHASSIS		CTV FINAL		LAST INITIAL	
(HEX)	D7	D6	D5	D4	D3	D2	D1	D0	DEFAULT	RANGE	WRITE(CPU)	CHECK DATA	CHECK TYPE	CHECK DATA	CHECK TYPE	SETTING DATA	REMARK
280	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 12
281	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 13
282	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 14
283	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 15
284	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 16
285	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 17
286	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 18
287	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 19
288	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 20
289	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 21
28A	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 22
28B	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 23
28C	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 24
28D	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	0-FF							POS 25
28E	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	0-FF							POS 26
28F	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	0-FF							POS 27
290	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	0-FF							POS 28
291	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	0-FF							POS 29
292	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	0-FF							POS 30
293	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	0-FF							POS 31
294	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	0-FF							POS 32
295	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	0-FF							POS 33
296	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	0-FF							POS 34
297	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	0-FF							POS 35
298	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	0-FF							POS 36
299	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	0-FF							POS 37
29A	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	0-FF							POS 38
29B	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	0-FF							POS 39
29C	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	0-FF							POS 40
29D	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	0-FF							POS 41
29E	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	0-FF							POS 42
29F	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	0-FF							POS 43
2A0	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	0-FF							POS 44
2A1	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	0-FF							POS 45
2A2	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	0-FF							POS 46
2A3	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	0-FF							POS 47
2A4	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	0-FF							POS 48
2A5	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	0-FF							POS 49
2A6	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	0-FF							POS 50
2A7	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	0-FF							POS 51
2A8	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	0-FF							POS 52
2A9	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	0-FF							POS 53
2AA	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	0-FF							POS 54
2AB	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	0-FF							POS 55
2AC	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	0-FF							POS 56
2AD	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	0-FF							POS 57
2AE	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	0-FF							POS 58
2AF	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	0-FF							POS 59
2B0	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	0-FF							POS 60
2B1	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	0-FF							POS 61
2B2	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	0-FF							POS 62
2B3	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	0-FF							POS 63
2B4	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 64
2B5	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 65
2B6	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 66
2B7	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 67
2B8	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 68
2B9	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 69
2BA	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 70
2BB	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 71
2BC	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 72
2BD	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 73
2BE	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 74
2BF	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 75
MODEL									MODEL								
LETTER NO.									LETTER NO.								

MEMORY MAP (Continued)

SLAVE ADDRESS : A0(00-FF) A2(100-1FF) A4(200-2FF) A6(300-3FF) A8(400-4FF) AA(500-5FF)

ADDRESS	DATA								MICON	EEPROM	EEPROM	CHASSIS		CTV FINAL		LAST INITIAL	REMARK
(HEX)	D7	D6	D5	D4	D3	D2	D1	D0	DEFAULT	RANGE	WRITE(CPU)	CHECK DATA	CHECK TYPE	CHECK DATA	CHECK TYPE	SETTING DATA	
2C0	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 76
2C1	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 77
2C2	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 78
2C3	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 79
2C4	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 80
2C5	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 81
2C6	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 82
2C7	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 83
2C8	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 84
2C9	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 85
2CA	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 86
2CB	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 87
2CC	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 88
2CD	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 89
2CE	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 90
2CF	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 91
2D0	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 92
2D1	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 93
2D2	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 94
2D3	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 95
2D4	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 96
2D5	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 97
2D6	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 98
2D7	A2 FM	A2 ST	A2 BIL1	NCM FM	NCM MONO	NCM ST	NCM BIL2	NCM BIL1	4C	00-FF							POS 99
2D8	ROM CORRECTION-1 HIGH BYTE ADDRESS				ROM CORRECTION-1 ID					00-FF							**Valid (*A)**
2D9	ROM CORRECTION-1 MIDDLE BYTE ADDRESS									00-FF							
2DA	ROM CORRECTION-1 LOW BYTE ADDRESS									00-FF							
2DB	ROM CORRECTION-1 DATA LENGTH									00-FF							
2DC	ROM CORRECTION-1 CHECKSUM									00-FF							
2DD	ROM CORRECTION-2 HIGH BYTE ADDRESS				ROM CORRECTION-2 ID					00-FF							**Valid (*A)**
2DE	ROM CORRECTION-2 MIDDLE BYTE ADDRESS									00-FF							
2DF	ROM CORRECTION-2 LOW BYTE ADDRESS									00-FF							
2E0	ROM CORRECTION-2 DATA LENGTH									00-FF							
2E1	ROM CORRECTION-2 CHECKSUM									00-FF							
2E2	ROM CORRECTION-3 HIGH BYTE ADDRESS				ROM CORRECTION-3 ID					00-FF							**Valid (*A)**
2E3	ROM CORRECTION-3 MIDDLE BYTE ADDRESS									00-FF							
2E4	ROM CORRECTION-3 LOW BYTE ADDRESS									00-FF							
2E5	ROM CORRECTION-3 DATA LENGTH									00-FF							
2E6	ROM CORRECTION-3 CHECKSUM									00-FF							
2E7	ROM CORRECTION-4 HIGH BYTE ADDRESS				ROM CORRECTION-4 ID					00-FF							**Valid (*A)**
2E8	ROM CORRECTION-4 MIDDLE BYTE ADDRESS									00-FF							
2E9	ROM CORRECTION-4 LOW BYTE ADDRESS									00-FF							
2EA	ROM CORRECTION-4 DATA LENGTH									00-FF							
2EB	ROM CORRECTION-4 CHECKSUM									00-FF							
2EC	ROM CORRECTION-5 HIGH BYTE ADDRESS				ROM CORRECTION-5 ID					00-FF							**Valid (*A)**
2ED	ROM CORRECTION-5 MIDDLE BYTE ADDRESS									00-FF							
2EE	ROM CORRECTION-5 LOW BYTE ADDRESS									00-FF							
2EF	ROM CORRECTION-5 DATA LENGTH									00-FF							
2F0	ROM CORRECTION-5 CHECKSUM									00-FF							
2F1	ROM CORRECTION-6 HIGH BYTE ADDRESS				ROM CORRECTION-6 ID					00-FF							**Valid (*A)**
2F2	ROM CORRECTION-6 MIDDLE BYTE ADDRESS									00-FF							
2F3	ROM CORRECTION-6 LOW BYTE ADDRESS									00-FF							
2F4	ROM CORRECTION-6 DATA LENGTH									00-FF							
2F5	ROM CORRECTION-6 CHECKSUM									00-FF							
2F6	ROM CORRECTION-7 HIGH BYTE ADDRESS				ROM CORRECTION-7 ID					00-FF							**Valid (*A)**
2F7	ROM CORRECTION-7 MIDDLE BYTE ADDRESS									00-FF							
2F8	ROM CORRECTION-7 LOW BYTE ADDRESS									00-FF							
2F9	ROM CORRECTION-7 DATA LENGTH									00-FF							
2FA	ROM CORRECTION-7 CHECKSUM									00-FF							
2FB	ROM CORRECTION-8 HIGH BYTE ADDRESS				ROM CORRECTION-8 ID					00-FF							**Valid (*A)**
2FC	ROM CORRECTION-8 MIDDLE BYTE ADDRESS									00-FF							
2FD	ROM CORRECTION-8 LOW BYTE ADDRESS									00-FF							
2FE	ROM CORRECTION-8 DATA LENGTH									00-FF							
2FF	ROM CORRECTION-8 CHECKSUM									00-FF							
MODEL									MODEL								
LETTER NO.									LETTER NO.								

MEMORY MAP (Continued)

SLAVE ADDRESS : A0(00-FF) A2(100-1FF) A4(200-2FF) A6(300-3FF) A8(400-4FF) AA(500-5FF)

ADDRESS	DATA								MICON	EEPROM	EEPROM	CHASSIS		CTV FINAL		LAST INITIAL	
(HEX)	D7	D6	D5	D4	D3	D2	D1	D0	DEFAULT	RANGE	WRITE(CPU)	CHECK DATA	CHECK TYPE	CHECK DATA	CHECK TYPE	SETTING DATA	REMARK
300	ROM CORRECTION-1 CODE									00-FF							
301	ROM CORRECTION-1 CODE									00-FF							
302	ROM CORRECTION-1 CODE									00-FF							
303	ROM CORRECTION-1 CODE									00-FF							
304	ROM CORRECTION-1 CODE									00-FF							
305	ROM CORRECTION-1 CODE									00-FF							
306	ROM CORRECTION-1 CODE									00-FF							
307	ROM CORRECTION-1 CODE									00-FF							
308	ROM CORRECTION-1 CODE									00-FF							
309	ROM CORRECTION-1 CODE									00-FF							
30A	ROM CORRECTION-1 CODE									00-FF							
30B	ROM CORRECTION-1 CODE									00-FF							
30C	ROM CORRECTION-1 CODE									00-FF							
30D	ROM CORRECTION-1 CODE									00-FF							
30E	ROM CORRECTION-1 CODE									00-FF							
30F	ROM CORRECTION-1 CODE									00-FF							
310	ROM CORRECTION-1 CODE									00-FF							
311	ROM CORRECTION-1 CODE									00-FF							
312	ROM CORRECTION-1 CODE									00-FF							
313	ROM CORRECTION-1 CODE									00-FF							
314	ROM CORRECTION-1 CODE									00-FF							
315	ROM CORRECTION-1 CODE									00-FF							
316	ROM CORRECTION-1 CODE									00-FF							
317	ROM CORRECTION-1 CODE									00-FF							
318	ROM CORRECTION-1 CODE									00-FF							
319	ROM CORRECTION-1 CODE									00-FF							
31A	ROM CORRECTION-1 CODE									00-FF							
31B	ROM CORRECTION-1 CODE									00-FF							
31C	ROM CORRECTION-1 CODE									00-FF							
31D	ROM CORRECTION-1 CODE									00-FF							
31E	ROM CORRECTION-1 CODE									00-FF							
31F	ROM CORRECTION-1 CODE									00-FF							
320	ROM CORRECTION-2 CODE									00-FF							
321	ROM CORRECTION-2 CODE									00-FF							
322	ROM CORRECTION-2 CODE									00-FF							
323	ROM CORRECTION-2 CODE									00-FF							
324	ROM CORRECTION-2 CODE									00-FF							
325	ROM CORRECTION-2 CODE									00-FF							
326	ROM CORRECTION-2 CODE									00-FF							
327	ROM CORRECTION-2 CODE									00-FF							
328	ROM CORRECTION-2 CODE									00-FF							
329	ROM CORRECTION-2 CODE									00-FF							
32A	ROM CORRECTION-2 CODE									00-FF							
32B	ROM CORRECTION-2 CODE									00-FF							
32C	ROM CORRECTION-2 CODE									00-FF							
32D	ROM CORRECTION-2 CODE									00-FF							
32E	ROM CORRECTION-2 CODE									00-FF							
32F	ROM CORRECTION-2 CODE									00-FF							
330	ROM CORRECTION-2 CODE									00-FF							
331	ROM CORRECTION-2 CODE									00-FF							
332	ROM CORRECTION-2 CODE									00-FF							
333	ROM CORRECTION-2 CODE									00-FF							
334	ROM CORRECTION-2 CODE									00-FF							
335	ROM CORRECTION-2 CODE									00-FF							
336	ROM CORRECTION-2 CODE									00-FF							
337	ROM CORRECTION-2 CODE									00-FF							
338	ROM CORRECTION-2 CODE									00-FF							
339	ROM CORRECTION-2 CODE									00-FF							
33A	ROM CORRECTION-2 CODE									00-FF							
33B	ROM CORRECTION-2 CODE									00-FF							
33C	ROM CORRECTION-2 CODE									00-FF							
33D	ROM CORRECTION-2 CODE									00-FF							
33E	ROM CORRECTION-2 CODE									00-FF							
33F	ROM CORRECTION-2 CODE									00-FF							
MODEL									MODEL								
LETTER NO.									LETTER NO.								

MEMORY MAP (Continued)

SLAVE ADDRESS : A0(00-FF) A2(100-1FF) A4(200-2FF) A6(300-3FF) A8(400-4FF) AA(500-5FF)

ADDRESS	DATA								MICON	EEPROM	EEPROM	CHASSIS		CTV FINAL		LAST INITIAL	
(HEX)	D7	D6	D5	D4	D3	D2	D1	D0	DEFAULT	RANGE	WRITE(CPU)	CHECK DATA	CHECK TYPE	CHECK DATA	CHECK TYPE	SETTING DATA	REMARK
340	ROM CORRECTION-3 CODE									00-FF							
341	ROM CORRECTION-3 CODE									00-FF							
342	ROM CORRECTION-3 CODE									00-FF							
343	ROM CORRECTION-3 CODE									00-FF							
344	ROM CORRECTION-3 CODE									00-FF							
345	ROM CORRECTION-3 CODE									00-FF							
346	ROM CORRECTION-3 CODE									00-FF							
347	ROM CORRECTION-3 CODE									00-FF							
348	ROM CORRECTION-3 CODE									00-FF							
349	ROM CORRECTION-3 CODE									00-FF							
34A	ROM CORRECTION-3 CODE									00-FF							
34B	ROM CORRECTION-3 CODE									00-FF							
34C	ROM CORRECTION-3 CODE									00-FF							
34D	ROM CORRECTION-3 CODE									00-FF							
34E	ROM CORRECTION-3 CODE									00-FF							
34F	ROM CORRECTION-3 CODE									00-FF							
350	ROM CORRECTION-3 CODE									00-FF							
351	ROM CORRECTION-3 CODE									00-FF							
352	ROM CORRECTION-3 CODE									00-FF							
353	ROM CORRECTION-3 CODE									00-FF							
354	ROM CORRECTION-3 CODE									00-FF							
355	ROM CORRECTION-3 CODE									00-FF							
356	ROM CORRECTION-3 CODE									00-FF							
357	ROM CORRECTION-3 CODE									00-FF							
358	ROM CORRECTION-3 CODE									00-FF							
359	ROM CORRECTION-3 CODE									00-FF							
35A	ROM CORRECTION-3 CODE									00-FF							
35B	ROM CORRECTION-3 CODE									00-FF							
35C	ROM CORRECTION-3 CODE									00-FF							
35D	ROM CORRECTION-3 CODE									00-FF							
35E	ROM CORRECTION-3 CODE									00-FF							
35F	ROM CORRECTION-3 CODE									00-FF							
360	ROM CORRECTION-4 CODE									00-FF							
361	ROM CORRECTION-4 CODE									00-FF							
362	ROM CORRECTION-4 CODE									00-FF							
363	ROM CORRECTION-4 CODE									00-FF							
364	ROM CORRECTION-4 CODE									00-FF							
365	ROM CORRECTION-4 CODE									00-FF							
366	ROM CORRECTION-4 CODE									00-FF							
367	ROM CORRECTION-4 CODE									00-FF							
368	ROM CORRECTION-4 CODE									00-FF							
369	ROM CORRECTION-4 CODE									00-FF							
36A	ROM CORRECTION-4 CODE									00-FF							
36B	ROM CORRECTION-4 CODE									00-FF							
36C	ROM CORRECTION-4 CODE									00-FF							
36D	ROM CORRECTION-4 CODE									00-FF							
36E	ROM CORRECTION-4 CODE									00-FF							
36F	ROM CORRECTION-4 CODE									00-FF							
370	ROM CORRECTION-4 CODE									00-FF							
371	ROM CORRECTION-4 CODE									00-FF							
372	ROM CORRECTION-4 CODE									00-FF							
373	ROM CORRECTION-4 CODE									00-FF							
374	ROM CORRECTION-4 CODE									00-FF							
375	ROM CORRECTION-4 CODE									00-FF							
376	ROM CORRECTION-4 CODE									00-FF							
377	ROM CORRECTION-4 CODE									00-FF							
378	ROM CORRECTION-4 CODE									00-FF							
379	ROM CORRECTION-4 CODE									00-FF							
37A	ROM CORRECTION-4 CODE									00-FF							
37B	ROM CORRECTION-4 CODE									00-FF							
37C	ROM CORRECTION-4 CODE									00-FF							
37D	ROM CORRECTION-4 CODE									00-FF							
37E	ROM CORRECTION-4 CODE									00-FF							
37F	ROM CORRECTION-4 CODE									00-FF							
MODEL									MODEL								
LETTER NO.									LETTER NO.								

MEMORY MAP (Continued)

SLAVE ADDRESS : A0(00-FF) A2(100-1FF) A4(200-2FF) A6(300-3FF) A8(400-4FF) AA(500-5FF)

ADDRESS	DATA								MICON	EEPROM	EEPROM	CHASSIS		CTV FINAL		LAST INITIAL	
(HEX)	D7	D6	D5	D4	D3	D2	D1	D0	DEFAULT	RANGE	WRITE(CPU)	CHECK DATA	CHECK TYPE	CHECK DATA	CHECK TYPE	SETTING DATA	REMARK
380	ROM CORRECTION-5 CODE									00-FF							
381	ROM CORRECTION-5 CODE									00-FF							
382	ROM CORRECTION-5 CODE									00-FF							
383	ROM CORRECTION-5 CODE									00-FF							
384	ROM CORRECTION-5 CODE									00-FF							
385	ROM CORRECTION-5 CODE									00-FF							
386	ROM CORRECTION-5 CODE									00-FF							
387	ROM CORRECTION-5 CODE									00-FF							
388	ROM CORRECTION-5 CODE									00-FF							
389	ROM CORRECTION-5 CODE									00-FF							
38A	ROM CORRECTION-5 CODE									00-FF							
38B	ROM CORRECTION-5 CODE									00-FF							
38C	ROM CORRECTION-5 CODE									00-FF							
38D	ROM CORRECTION-5 CODE									00-FF							
38E	ROM CORRECTION-5 CODE									00-FF							
38F	ROM CORRECTION-5 CODE									00-FF							
390	ROM CORRECTION-5 CODE									00-FF							
391	ROM CORRECTION-5 CODE									00-FF							
392	ROM CORRECTION-5 CODE									00-FF							
393	ROM CORRECTION-5 CODE									00-FF							
394	ROM CORRECTION-5 CODE									00-FF							
395	ROM CORRECTION-5 CODE									00-FF							
396	ROM CORRECTION-5 CODE									00-FF							
397	ROM CORRECTION-5 CODE									00-FF							
398	ROM CORRECTION-5 CODE									00-FF							
399	ROM CORRECTION-5 CODE									00-FF							
39A	ROM CORRECTION-5 CODE									00-FF							
39B	ROM CORRECTION-5 CODE									00-FF							
39C	ROM CORRECTION-5 CODE									00-FF							
39D	ROM CORRECTION-5 CODE									00-FF							
39E	ROM CORRECTION-5 CODE									00-FF							
39F	ROM CORRECTION-5 CODE									00-FF							
3A0	ROM CORRECTION-6 CODE									00-FF							
3A1	ROM CORRECTION-6 CODE									00-FF							
3A2	ROM CORRECTION-6 CODE									00-FF							
3A3	ROM CORRECTION-6 CODE									00-FF							
3A4	ROM CORRECTION-6 CODE									00-FF							
3A5	ROM CORRECTION-6 CODE									00-FF							
3A6	ROM CORRECTION-6 CODE									00-FF							
3A7	ROM CORRECTION-6 CODE									00-FF							
3A8	ROM CORRECTION-6 CODE									00-FF							
3A9	ROM CORRECTION-6 CODE									00-FF							
3AA	ROM CORRECTION-6 CODE									00-FF							
3AB	ROM CORRECTION-6 CODE									00-FF							
3AC	ROM CORRECTION-6 CODE									00-FF							
3AD	ROM CORRECTION-6 CODE									00-FF							
3AE	ROM CORRECTION-6 CODE									00-FF							
3AF	ROM CORRECTION-6 CODE									00-FF							
3B0	ROM CORRECTION-6 CODE									00-FF							
3B1	ROM CORRECTION-6 CODE									00-FF							
3B2	ROM CORRECTION-6 CODE									00-FF							
3B3	ROM CORRECTION-6 CODE									00-FF							
3B4	ROM CORRECTION-6 CODE									00-FF							
3B5	ROM CORRECTION-6 CODE									00-FF							
3B6	ROM CORRECTION-6 CODE									00-FF							
3B7	ROM CORRECTION-6 CODE									00-FF							
3B8	ROM CORRECTION-6 CODE									00-FF							
3B9	ROM CORRECTION-6 CODE									00-FF							
3BA	ROM CORRECTION-6 CODE									00-FF							
3BB	ROM CORRECTION-6 CODE									00-FF							
3BC	ROM CORRECTION-6 CODE									00-FF							
3BD	ROM CORRECTION-6 CODE									00-FF							
3BE	ROM CORRECTION-6 CODE									00-FF							
3BF	ROM CORRECTION-6 CODE									00-FF							

MODEL								MODEL						
LETTER NO.								LETTER NO.						

MEMORY MAP (Continued)

SLAVE ADDRESS : A0(00-FF) A2(100-1FF) A4(200-2FF) A6(300-3FF) A8(400-4FF) AA(500-5FF)

ADDRESS	DATA								MICON	EEPROM	EEPROM	CHASSIS		CTV FINAL		LAST INITIAL	
(HEX)	D7	D6	D5	D4	D3	D2	D1	D0	DEFAULT	RANGE	WRITE(CPU)	CHECK DATA	CHECK TYPE	CHECK DATA	CHECK TYPE	SETTING DATA	REMARK
3C0	ROM CORRECTION-7 CODE									00-FF							
3C1	ROM CORRECTION-7 CODE									00-FF							
3C2	ROM CORRECTION-7 CODE									00-FF							
3C3	ROM CORRECTION-7 CODE									00-FF							
3C4	ROM CORRECTION-7 CODE									00-FF							
3C5	ROM CORRECTION-7 CODE									00-FF							
3C6	ROM CORRECTION-7 CODE									00-FF							
3C7	ROM CORRECTION-7 CODE									00-FF							
3C8	ROM CORRECTION-7 CODE									00-FF							
3C9	ROM CORRECTION-7 CODE									00-FF							
3CA	ROM CORRECTION-7 CODE									00-FF							
3CB	ROM CORRECTION-7 CODE									00-FF							
3CC	ROM CORRECTION-7 CODE									00-FF							
3CD	ROM CORRECTION-7 CODE									00-FF							
3CE	ROM CORRECTION-7 CODE									00-FF							
3CF	ROM CORRECTION-7 CODE									00-FF							
3D0	ROM CORRECTION-7 CODE									00-FF							
3D1	ROM CORRECTION-7 CODE									00-FF							
3D2	ROM CORRECTION-7 CODE									00-FF							
3D3	ROM CORRECTION-7 CODE									00-FF							
3D4	ROM CORRECTION-7 CODE									00-FF							
3D5	ROM CORRECTION-7 CODE									00-FF							
3D6	ROM CORRECTION-7 CODE									00-FF							
3D7	ROM CORRECTION-7 CODE									00-FF							
3D8	ROM CORRECTION-7 CODE									00-FF							
3D9	ROM CORRECTION-7 CODE									00-FF							
3DA	ROM CORRECTION-7 CODE									00-FF							
3DB	ROM CORRECTION-7 CODE									00-FF							
3DC	ROM CORRECTION-7 CODE									00-FF							
3DD	ROM CORRECTION-7 CODE									00-FF							
3DE	ROM CORRECTION-7 CODE									00-FF							
3DF	ROM CORRECTION-7 CODE									00-FF							
3E0	ROM CORRECTION-8 CODE									00-FF							
3E1	ROM CORRECTION-8 CODE									00-FF							
3E2	ROM CORRECTION-8 CODE									00-FF							
3E3	ROM CORRECTION-8 CODE									00-FF							
3E4	ROM CORRECTION-8 CODE									00-FF							
3E5	ROM CORRECTION-8 CODE									00-FF							
3E6	ROM CORRECTION-8 CODE									00-FF							
3E7	ROM CORRECTION-8 CODE									00-FF							
3E8	ROM CORRECTION-8 CODE									00-FF							
3E9	ROM CORRECTION-8 CODE									00-FF							
3EA	ROM CORRECTION-8 CODE									00-FF							
3EB	ROM CORRECTION-8 CODE									00-FF							
3EC	ROM CORRECTION-8 CODE									00-FF							
3ED	ROM CORRECTION-8 CODE									00-FF							
3EE	ROM CORRECTION-8 CODE									00-FF							
3EF	ROM CORRECTION-8 CODE									00-FF							
3F0	ROM CORRECTION-8 CODE									00-FF							
3F1	ROM CORRECTION-8 CODE									00-FF							
3F2	ROM CORRECTION-8 CODE									00-FF							
3F3	ROM CORRECTION-8 CODE									00-FF							
3F4	ROM CORRECTION-8 CODE									00-FF							
3F5	ROM CORRECTION-8 CODE									00-FF							
3F6	ROM CORRECTION-8 CODE									00-FF							
3F7	ROM CORRECTION-8 CODE									00-FF							
3F8	ROM CORRECTION-8 CODE									00-FF							
3F9	ROM CORRECTION-8 CODE									00-FF							
3FA	ROM CORRECTION-8 CODE									00-FF							
3FB	ROM CORRECTION-8 CODE									00-FF							
3FC	ROM CORRECTION-8 CODE									00-FF							
3FD	ROM CORRECTION-8 CODE									00-FF							
3FE	ROM CORRECTION-8 CODE									00-FF							
3FF	ROM CORRECTION-8 CODE									00-FF							

MODEL							MODEL						
LETTER NO.							LETTER NO.						

MEMORY MAP (Continued)

SLAVE ADDRESS : A0(00-FF) A2(100-1FF) A4(200-2FF) A6(300-3FF) A8(400-4FF) AA(500-5FF)

ADDRESS	DATA								MICON	EEPROM	EEPROM	CHASSIS		CTV FINAL		LAST INITIAL	REMARK
(HEX)	D7	D6	D5	D4	D3	D2	D1	D0	DEFAULT	RANGE	WRITE(CPU)	CHECK DATA	CHECK TYPE	CHECK DATA	CHECK TYPE	SETTING DATA	
400	Inbox Message - Character 01								FF	00-FF							
401	Inbox Message - Character 02								FF	00-FF							
402	Inbox Message - Character 03								FF	00-FF							
403	Inbox Message - Character 04								FF	00-FF							
404	Inbox Message - Character 05								FF	00-FF							
405	Inbox Message - Character 06								FF	00-FF							
406	Inbox Message - Character 07								FF	00-FF							
407	Inbox Message - Character 08								FF	00-FF							
408	Inbox Message - Character 09								FF	00-FF							
409	Inbox Message - Character 10								FF	00-FF							
40A	Inbox Message - Character 11								FF	00-FF							
40B	Inbox Message - Character 12								FF	00-FF							
40C	Inbox Message - Character 13								FF	00-FF							
40D	Inbox Message - Character 14								FF	00-FF							
40E	Inbox Message - Character 15								FF	0-FF							
40F	Inbox Message - Character 16								FF	0-FF							
410	Inbox Message - Character 17								FF	0-FF							
411	Inbox Message - Character 18								FF	0-FF							
412	Inbox Message - Character 19								FF	0-FF							
413	Inbox Message - Character 20								FF	0-FF							
414	Inbox Message - Character 21								FF	0-FF							
415	Inbox Message - Character 22								FF	0-FF							
416	Inbox Message - Character 23								FF	0-FF							
417	Inbox Message - Character 24								FF	0-FF							
418	Inbox Message - Character 25								FF	0-FF							
419	Inbox Message - Character 26								FF	0-FF							
41A	Inbox Message - Character 27								FF	0-FF							
41B	Inbox Message - Character 28								FF	0-FF							
41C	Inbox Message - Character 29								FF	0-FF							
41D	Inbox Message - Character 30								FF	0-FF							
41E	Inbox Message - Character 31								FF	0-FF							
41F	Inbox Message - Character 32								FF	0-FF							
420	Inbox Message - Character 33								FF	0-FF							
421	Inbox Message - Character 34								FF	0-FF							
422	Inbox Message - Character 35								FF	0-FF							
423	Inbox Message - Character 36								FF	0-FF							
424	Inbox Message - Character 37								FF	0-FF							
425	Inbox Message - Character 38								FF	0-FF							
426	Inbox Message - Character 39								FF	0-FF							
427	Inbox Message - Character 40								FF	0-FF							
428	Inbox Message - Character 41								FF	0-FF							
429	Inbox Message - Character 42								FF	0-FF							
42A	Inbox Message - Character 43								FF	0-FF							
42B	Inbox Message - Character 44								FF	0-FF							
42C	Inbox Message - Character 45								FF	0-FF							
42D	Inbox Message - Character 46								FF	0-FF							
42E	Inbox Message - Character 47								FF	0-FF							
42F	Inbox Message - Character 48								FF	0-FF							
430	Inbox Message - Character 49								FF	0-FF							
431	Inbox Message - Character 50								FF	0-FF							
432	Inbox Message - Character 51								FF	0-FF							
433	Inbox Message - Character 52								FF	0-FF							
434	Inbox Message - Character 53								FF	0-FF							
435	Inbox Message - Character 54								FF	0-FF							
436	Inbox Message - Character 55								FF	0-FF							
437	Inbox Message - Character 56								FF	0-FF							
438	Inbox Message - Character 57								FF	0-FF							
439	Inbox Message - Character 58								FF	0-FF							
43A	Inbox Message - Character 59								FF	0-FF							
43B	Inbox Message - Character 60								FF	0-FF							
43C	Inbox Message - Character 61								FF	0-FF							
43D	Inbox Message - Character 62								FF	0-FF							
43E	Inbox Message - Character 63								FF	0-FF							
43F	Inbox Message - Character 64								FF	0-FF							
MODEL									MODEL								
LETTER NO.									LETTER NO.								

MEMORY MAP (Continued)

SLAVE ADDRESS : A0(00-FF) A2(100-1FF) A4(200-2FF) A6(300-3FF) A8(400-4FF) AA(500-5FF)

ADDRESS	DATA								MICON	EEPROM	EEPROM	CHASSIS		CTV FINAL		LAST INITIAL	REMARK
(HEX)	D7	D6	D5	D4	D3	D2	D1	D0	DEFAULT	RANGE	WRITE(CPU)	CHECK DATA	CHECK TYPE	CHECK DATA	CHECK TYPE	SETTING DATA	
440	Inbox Message - Character 65								FF	0-FF							
441	Inbox Message - Character 66								FF	0-FF							
441	Inbox Message - Character 67								FF	0-FF							
443	Inbox Message - Character 68								FF	0-FF							
444	Inbox Message - Character 68								FF	0-FF							
445	Inbox Message - Character 70								FF	0-FF							
446	Inbox Message - Character 71								FF	0-FF							
447	Inbox Message - Character 72								FF	0-FF							
448																	
449																	
44A																	
44B																	
44C																	
44D																	
44E																	
44F																	
450																	
451																	
452																	
453																	
454																	
455																	
456																	
457																	
458																	
459																	
45A																	
45B																	
45C																	
45D																	
45E																	
45F																	
460																	
461																	
462																	
463																	
464																	
465																	
466																	
467																	
468																	
469																	
46A																	
46B																	
46C																	
46D																	
46E																	
46F																	
470																	
471																	
472																	
473																	
474																	
475																	
476																	
477																	
478																	
479																	
47A																	
47B																	
47C																	
47D																	
47E																	
47F																	

MODEL							MODEL						
LETTER NO.							LETTER NO.						

MEMORY MAP (Continued)

SLAVE ADDRESS : A0(00-FF) A2(100-1FF) A4(200-2FF) A6(300-3FF) A8(400-4FF) AA(500-5FF)

ADDRESS	DATA								MICON	EEPROM	EEPROM	CHASSIS		CTV FINAL		LAST INITIAL	
(HEX)	D7	D6	D5	D4	D3	D2	D1	D0	DEFAULT	RANGE	WRITE(CPU)	CHECK DATA	CHECK TYPE	CHECK DATA	CHECK TYPE	SETTING DATA	REMARK
480	Message Favorite One- Character 01								FF	00-FF							
481	Message Favorite One- Character 02								FF	00-FF							
482	Message Favorite One- Character 03								FF	0-FF							
483	Message Favorite One- Character 04								FF	0-FF							
484	Message Favorite One- Character 05								FF	0-FF							
485	Message Favorite One- Character 06								FF	0-FF							
486	Message Favorite One- Character 07								FF	0-FF							
487	Message Favorite One- Character 08								FF	0-FF							
488	Message Favorite One- Character 09								FF	0-FF							
489	Message Favorite One- Character 10								FF	0-FF							
48A	Message Favorite One- Character 11								FF	0-FF							
48B	Message Favorite One- Character 12								FF	0-FF							
48C	Message Favorite One- Character 13								FF	0-FF							
48D	Message Favorite One- Character 14								FF	0-FF							
48E	Message Favorite One- Character 15								FF	0-FF							
48F	Message Favorite One- Character 16								FF	0-FF							
490	Message Favorite One- Character 17								FF	0-FF							
491	Message Favorite One- Character 18								FF	0-FF							
492	Message Favorite One- Character 19								FF	0-FF							
493	Message Favorite One- Character 20								FF	0-FF							
494	Message Favorite One- Character 21								FF	0-FF							
495	Message Favorite One- Character 22								FF	0-FF							
496	Message Favorite One- Character 23								FF	0-FF							
497	Message Favorite One- Character 24								FF	0-FF							
498	Message Favorite One- Character 25								FF	0-FF							
499	Message Favorite One- Character 26								FF	0-FF							
49A	Message Favorite One- Character 27								FF	0-FF							
49B	Message Favorite One- Character 28								FF	0-FF							
49C	Message Favorite One- Character 29								FF	0-FF							
49D	Message Favorite One- Character 30								FF	0-FF							
49E	Message Favorite One- Character 31								FF	0-FF							
49F	Message Favorite One- Character 32								FF	0-FF							
4A0	Message Favorite One- Character 33								FF	0-FF							
4A1	Message Favorite One- Character 34								FF	0-FF							
4A2	Message Favorite One- Character 35								FF	0-FF							
4A3	Message Favorite One- Character 36								FF	0-FF							
4A4	Message Favorite One- Character 37								FF	0-FF							
4A5	Message Favorite One- Character 38								FF	0-FF							
4A6	Message Favorite One- Character 39								FF	0-FF							
4A7	Message Favorite One- Character 40								FF	0-FF							
4A8	Message Favorite One- Character 41								FF	0-FF							
4A9	Message Favorite One- Character 42								FF	0-FF							
4AA	Message Favorite One- Character 43								FF	0-FF							
4AB	Message Favorite One- Character 44								FF	0-FF							
4AC	Message Favorite One- Character 45								FF	0-FF							
4AD	Message Favorite One- Character 46								FF	0-FF							
4AE	Message Favorite One- Character 47								FF	0-FF							
4AF	Message Favorite One- Character 48								FF	0-FF							
4B0	Message Favorite One- Character 49								FF	0-FF							
4B1	Message Favorite One- Character 50								FF	0-FF							
4B2	Message Favorite One- Character 51								FF	0-FF							
4B3	Message Favorite One- Character 52								FF	0-FF							
4B4	Message Favorite One- Character 53								FF	0-FF							
4B5	Message Favorite One- Character 54								FF	0-FF							
4B6	Message Favorite One- Character 55								FF	0-FF							
4B7	Message Favorite One- Character 56								FF	0-FF							
4B8	Message Favorite One- Character 57								FF	0-FF							
4B9	Message Favorite One- Character 58								FF	0-FF							
4BA	Message Favorite One- Character 59								FF	0-FF							
4BB	Message Favorite One- Character 60								FF	0-FF							
4BC	Message Favorite One- Character 61								FF	0-FF							
4BD	Message Favorite One- Character 62								FF	0-FF							
4BE	Message Favorite One- Character 63								FF	0-FF							
4BF	Message Favorite One- Character 64								FF	0-FF							

MODEL							MODEL						
LETTER NO.							LETTER NO.						

MEMORY MAP (Continued)

SLAVE ADDRESS : A0(00-FF) A2(100-1FF) A4(200-2FF) A6(300-3FF) A8(400-4FF) AA(500-5FF)

ADDRESS	DATA								MICON	EEPROM	EEPROM	CHASSIS		CTV FINAL		LAST INITIAL	REMARK
(HEX)	D7	D6	D5	D4	D3	D2	D1	D0	DEFAULT	RANGE	WRITE(CPU)	CHECK DATA	CHECK TYPE	CHECK DATA	CHECK TYPE	SETTING DATA	
4C0	Message Favorite One- Character 65								FF	0-FF							
4C1	Message Favorite One- Character 66								FF	0-FF							
4C2	Message Favorite One- Character 67								FF	0-FF							
4C3	Message Favorite One- Character 68								FF	0-FF							
4C4	Message Favorite One- Character 69								FF	0-FF							
4C5	Message Favorite One- Character 70								FF	0-FF							
4C6	Message Favorite One- Character 71								FF	0-FF							
4C7	Message Favorite One- Character 72								FF	0-FF							
4C8																	
4C9																	
4CA																	
4CB																	
4CC																	
4CD																	
4CE																	
4CF																	
4D0																	
4D1																	
4D2																	
4D3																	
4D4																	
4D5																	
4D6																	
4D7																	
4D8																	
4D9																	
4DA																	
4DB																	
4DC																	
4DD																	
4DE																	
4DF																	
4E0																	
4E1																	
4E2																	
4E3																	
4E4																	
4E5																	
4E6																	
4E7																	
4E8																	
4E9																	
4EA																	
4EB																	
4EC																	
4ED																	
4EE																	
4EF																	
4F0																	
4F1																	
4F2																	
4F3																	
4F4																	
4F5																	
4F6																	
4F7																	
4F8																	
4F9																	
4FA																	
4FB																	
4FC																	
4FD																	
4FE																	
4FF																	

MODEL							MODEL						
LETTER NO.							LETTER NO.						

MEMORY MAP (Continued)

SLAVE ADDRESS : A0(00-FF) A2(100-1FF) A4(200-2FF) A6(300-3FF) A8(400-4FF) AA(500-5FF)

ADDRESS	DATA								MICON	EEPROM	EEPROM	CHASSIS		CTV FINAL		LAST INITIAL	
(HEX)	D7	D6	D5	D4	D3	D2	D1	D0	DEFAULT	RANGE	WRITE(CPU)	CHECK DATA	CHECK TYPE	CHECK DATA	CHECK TYPE	SETTING DATA	REMARK
500	Message Favorite Two- Character 01								FF	00-FF							
501	Message Favorite Two- Character 02								FF	00-FF							
502	Message Favorite Two- Character 03								FF	0-FF							
503	Message Favorite Two- Character 04								FF	0-FF							
504	Message Favorite Two- Character 05								FF	0-FF							
505	Message Favorite Two- Character 06								FF	0-FF							
506	Message Favorite Two- Character 07								FF	0-FF							
507	Message Favorite Two- Character 08								FF	0-FF							
508	Message Favorite Two- Character 09								FF	0-FF							
509	Message Favorite Two- Character 10								FF	0-FF							
50A	Message Favorite Two- Character 11								FF	0-FF							
50B	Message Favorite Two- Character 12								FF	0-FF							
50C	Message Favorite Two- Character 13								FF	0-FF							
50D	Message Favorite Two- Character 14								FF	0-FF							
50E	Message Favorite Two- Character 15								FF	0-FF							
50F	Message Favorite Two- Character 16								FF	0-FF							
510	Message Favorite Two- Character 17								FF	0-FF							
511	Message Favorite Two- Character 18								FF	0-FF							
512	Message Favorite Two- Character 19								FF	0-FF							
513	Message Favorite Two- Character 20								FF	0-FF							
514	Message Favorite Two- Character 21								FF	0-FF							
515	Message Favorite Two- Character 22								FF	0-FF							
516	Message Favorite Two- Character 23								FF	0-FF							
517	Message Favorite Two- Character 24								FF	0-FF							
518	Message Favorite Two- Character 25								FF	0-FF							
519	Message Favorite Two- Character 26								FF	0-FF							
51A	Message Favorite Two- Character 27								FF	0-FF							
51B	Message Favorite Two- Character 28								FF	0-FF							
51C	Message Favorite Two- Character 29								FF	0-FF							
51D	Message Favorite Two- Character 30								FF	0-FF							
51E	Message Favorite Two- Character 31								FF	0-FF							
51F	Message Favorite Two- Character 32								FF	0-FF							
520	Message Favorite Two- Character 33								FF	0-FF							
521	Message Favorite Two- Character 34								FF	0-FF							
522	Message Favorite Two- Character 35								FF	0-FF							
523	Message Favorite Two- Character 36								FF	0-FF							
524	Message Favorite Two- Character 37								FF	0-FF							
525	Message Favorite Two- Character 38								FF	0-FF							
526	Message Favorite Two- Character 39								FF	0-FF							
527	Message Favorite Two- Character 40								FF	0-FF							
528	Message Favorite Two- Character 41								FF	0-FF							
529	Message Favorite Two- Character 42								FF	0-FF							
52A	Message Favorite Two- Character 43								FF	0-FF							
52B	Message Favorite Two- Character 44								FF	0-FF							
52C	Message Favorite Two- Character 45								FF	0-FF							
52D	Message Favorite Two- Character 46								FF	0-FF							
52E	Message Favorite Two- Character 47								FF	0-FF							
52F	Message Favorite Two- Character 48								FF	0-FF							
530	Message Favorite Two- Character 49								FF	0-FF							
531	Message Favorite Two- Character 50								FF	0-FF							
532	Message Favorite Two- Character 51								FF	0-FF							
533	Message Favorite Two- Character 52								FF	0-FF							
534	Message Favorite Two- Character 53								FF	0-FF							
535	Message Favorite Two- Character 54								FF	0-FF							
536	Message Favorite Two- Character 55								FF	0-FF							
537	Message Favorite Two- Character 56								FF	0-FF							
538	Message Favorite Two- Character 57								FF	0-FF							
539	Message Favorite Two- Character 58								FF	0-FF							
53A	Message Favorite Two- Character 59								FF	0-FF							
53B	Message Favorite Two- Character 60								FF	0-FF							
53C	Message Favorite Two- Character 61								FF	0-FF							
53D	Message Favorite Two- Character 62								FF	0-FF							
53E	Message Favorite Two- Character 63								FF	0-FF							
53F	Message Favorite Two- Character 64								FF	0-FF							
MODEL									MODEL								
LETTER NO.									LETTER NO.								

MEMORY MAP (Continued)

SLAVE ADDRESS : A0(00-FF) A2(100-1FF) A4(200-2FF) A6(300-3FF) A8(400-4FF) AA(500-5FF)

ADDRESS	DATA								MICON	EEPROM	EEPROM	CHASSIS		CTV FINAL		LAST INITIAL	
(HEX)	D7	D6	D5	D4	D3	D2	D1	D0	DEFAULT	RANGE	WRITE(CPU)	CHECK DATA	CHECK TYPE	CHECK DATA	CHECK TYPE	SETTING DATA	REMARK
540	Message Favorite Two- Character 65								FF	0-FF							
541	Message Favorite Two- Character 66								FF	0-FF							
542	Message Favorite Two- Character 67								FF	0-FF							
543	Message Favorite Two- Character 68								FF	0-FF							
544	Message Favorite Two- Character 69								FF	0-FF							
545	Message Favorite Two- Character 70								FF	0-FF							
546	Message Favorite Two- Character 71								FF	0-FF							
547	Message Favorite Two- Character 72								FF	0-FF							
548																	
549																	
54A																	
54B																	
54C																	
54D																	
556																	
54F																	
550																	
551																	
552																	
553																	
554																	
555																	
556																	
557																	
558																	
559																	
55A																	
55B																	
55C																	
55D																	
55E																	
55F																	
560																	
561																	
562																	
563																	
564																	
565																	
566																	
567																	
568																	
569																	
56A																	
56B																	
56C																	
56D																	
56E																	
56F																	
570																	
571																	
572																	
573																	
574																	
575																	
576																	
577																	
578																	
579																	
57A																	
57B																	
57C																	
57D																	
57E																	
57F																	

MODEL							MODEL						
LETTER NO.							LETTER NO.						

MEMORY MAP (Continued)

SLAVE ADDRESS : A0(00-FF) A2(100-1FF) A4(200-2FF) A6(300-3FF) A8(400-4FF) AA(500-5FF)

ADDRESS	DATA								MICON	EEPROM	EEPROM	CHASSIS		CTV FINAL		LAST INITIAL	
(HEX)	D7	D6	D5	D4	D3	D2	D1	D0	DEFAULT	RANGE	WRITE(CPU)	CHECK DATA	CHECK TYPE	CHECK DATA	CHECK TYPE	SETTING DATA	REMARK
580	Message Favorite Three- Character 01								FF	00-FF							
581	Message Favorite Three- Character 02								FF	00-FF							
582	Message Favorite Three- Character 03								FF	0-FF							
583	Message Favorite Three- Character 04								FF	0-FF							
584	Message Favorite Three- Character 05								FF	0-FF							
585	Message Favorite Three- Character 06								FF	0-FF							
586	Message Favorite Three- Character 07								FF	0-FF							
587	Message Favorite Three- Character 08								FF	0-FF							
588	Message Favorite Three- Character 09								FF	0-FF							
589	Message Favorite Three- Character 10								FF	0-FF							
58A	Message Favorite Three- Character 11								FF	0-FF							
58B	Message Favorite Three- Character 12								FF	0-FF							
58C	Message Favorite Three- Character 13								FF	0-FF							
58D	Message Favorite Three- Character 14								FF	0-FF							
58E	Message Favorite Three- Character 15								FF	0-FF							
58F	Message Favorite Three- Character 16								FF	0-FF							
590	Message Favorite Three- Character 17								FF	0-FF							
591	Message Favorite Three- Character 18								FF	0-FF							
592	Message Favorite Three- Character 19								FF	0-FF							
593	Message Favorite Three- Character 20								FF	0-FF							
594	Message Favorite Three- Character 21								FF	0-FF							
595	Message Favorite Three- Character 22								FF	0-FF							
596	Message Favorite Three- Character 23								FF	0-FF							
597	Message Favorite Three- Character 24								FF	0-FF							
598	Message Favorite Three- Character 25								FF	0-FF							
599	Message Favorite Three- Character 26								FF	0-FF							
59A	Message Favorite Three- Character 27								FF	0-FF							
59B	Message Favorite Three- Character 28								FF	0-FF							
59C	Message Favorite Three- Character 29								FF	0-FF							
59D	Message Favorite Three- Character 30								FF	0-FF							
59E	Message Favorite Three- Character 31								FF	0-FF							
59F	Message Favorite Three- Character 32								FF	0-FF							
5A0	Message Favorite Three- Character 33								FF	0-FF							
5A1	Message Favorite Three- Character 34								FF	0-FF							
5A2	Message Favorite Three- Character 35								FF	0-FF							
5A3	Message Favorite Three- Character 36								FF	0-FF							
5A4	Message Favorite Three- Character 37								FF	0-FF							
5A5	Message Favorite Three- Character 38								FF	0-FF							
5A6	Message Favorite Three- Character 39								FF	0-FF							
5A7	Message Favorite Three- Character 40								FF	0-FF							
5A8	Message Favorite Three- Character 41								FF	0-FF							
5A9	Message Favorite Three- Character 42								FF	0-FF							
5AA	Message Favorite Three- Character 43								FF	0-FF							
5AB	Message Favorite Three- Character 44								FF	0-FF							
5AC	Message Favorite Three- Character 45								FF	0-FF							
5AD	Message Favorite Three- Character 46								FF	0-FF							
5AE	Message Favorite Three- Character 47								FF	0-FF							
5AF	Message Favorite Three- Character 58								FF	0-FF							
5B0	Message Favorite Three- Character 49								FF	0-FF							
5B1	Message Favorite Three- Character 50								FF	0-FF							
5B2	Message Favorite Three- Character 51								FF	0-FF							
5B3	Message Favorite Three- Character 52								FF	0-FF							
5B4	Message Favorite Three- Character 53								FF	0-FF							
5B5	Message Favorite Three- Character 54								FF	0-FF							
5B6	Message Favorite Three- Character 55								FF	0-FF							
5B7	Message Favorite Three- Character 56								FF	0-FF							
5B8	Message Favorite Three- Character 57								FF	0-FF							
5B9	Message Favorite Three- Character 58								FF	0-FF							
5BA	Message Favorite Three- Character 59								FF	0-FF							
5BB	Message Favorite Three- Character 60								FF	0-FF							
5BC	Message Favorite Three- Character 61								FF	0-FF							
5BD	Message Favorite Three- Character 62								FF	0-FF							
5BE	Message Favorite Three- Character 63								FF	0-FF							
5BF	Message Favorite Three- Character 64								FF	0-FF							
MODEL									MODEL								
LETTER NO.									LETTER NO.								

MEMORY MAP (Continued)

SLAVE ADDRESS : A0(00-FF) A2(100-1FF) A4(200-2FF) A6(300-3FF) A8(400-4FF) AA(500-5FF)

ADDRESS	DATA								MICON	EEPROM	EEPROM	CHASSIS		CTV FINAL		LAST INITIAL	
(HEX)	D7	D6	D5	D4	D3	D2	D1	D0	DEFAULT	RANGE	WRITE(CPU)	CHECK DATA	CHECK TYPE	CHECK DATA	CHECK TYPE	SETTING DATA	REMARK
5C0	Message Favorite Three- Character 65								FF	0-FF							
5C1	Message Favorite Three- Character 66								FF	0-FF							
5C2	Message Favorite Three- Character 67								FF	0-FF							
5C3	Message Favorite Three- Character 68								FF	0-FF							
5C4	Message Favorite Three- Character 69								FF	0-FF							
5C5	Message Favorite Three- Character 70								FF	0-FF							
5C6	Message Favorite Three- Character 71								FF	0-FF							
5C7	Message Favorite Three- Character 72								FF	0-FF							
5C8																	
5C9																	
5CA																	
5CB																	
5CC																	
5CD																	
5CE																	
5CF																	
5D0																	
5D1																	
5D2																	
5D3																	
5D4																	
5D5																	
5D6																	
5D7																	
5D8																	
5D9																	
5DA																	
5DB																	
5DC																	
5DD																	
5DE																	
5DF																	
5E0																	
5E1																	
5E2																	
5E3																	
5E4																	
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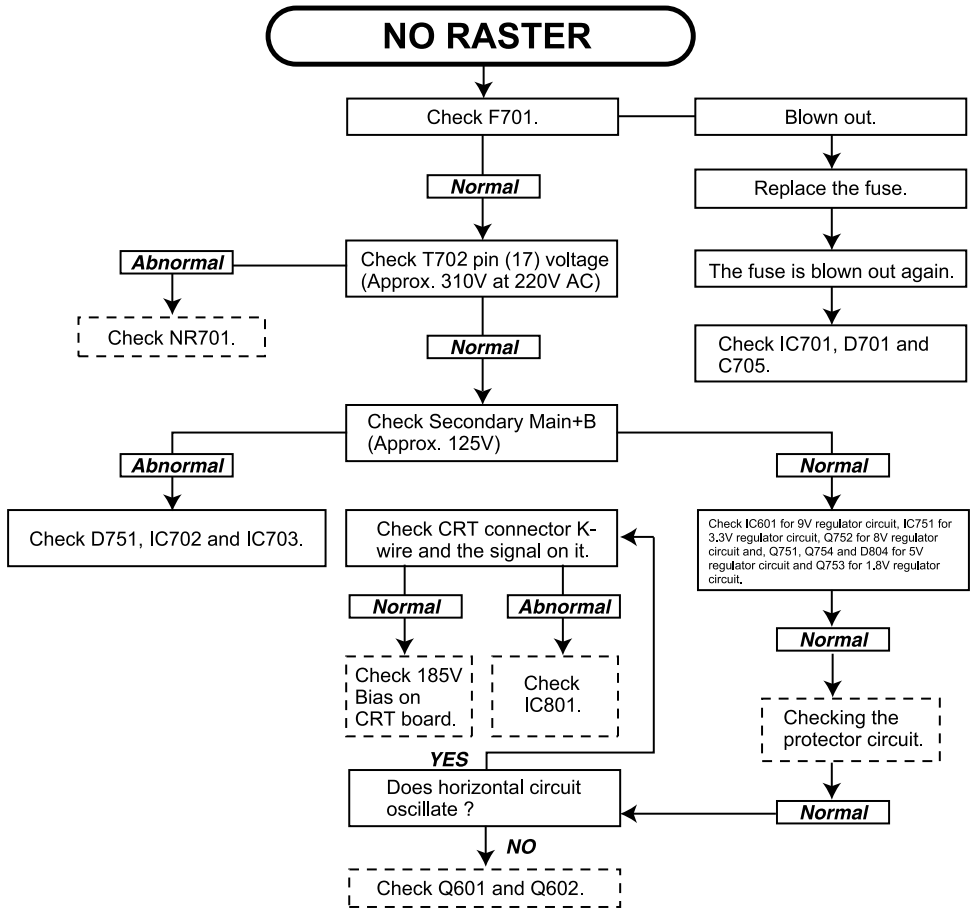
5E6																	
5E7																	
5E8																	
5E9																	
5EA																	
5EB																	
5EC																	
5ED																	
5EE																	
5EF																	
5F0																	
5F1																	
5F2																	
5F3																	
5F4																	
5F5																	
5F6																	
5F7																	
5F8																	
5F9																	
5FA																	
5FB																	
5FC																	
5FD																	
5FE																	
5FF																	

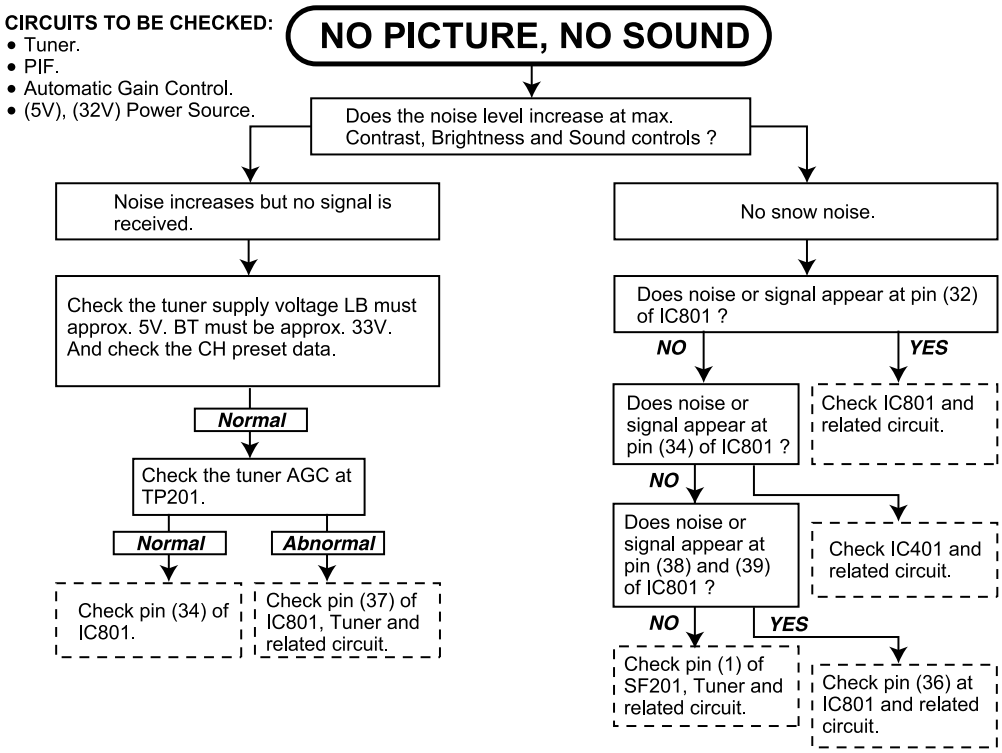
MODEL							MODEL						
LETTER NO.							LETTER NO.						

CHAPTER 5. TROUBLE SHOOTING

[1] TROUBLE SHOOTING

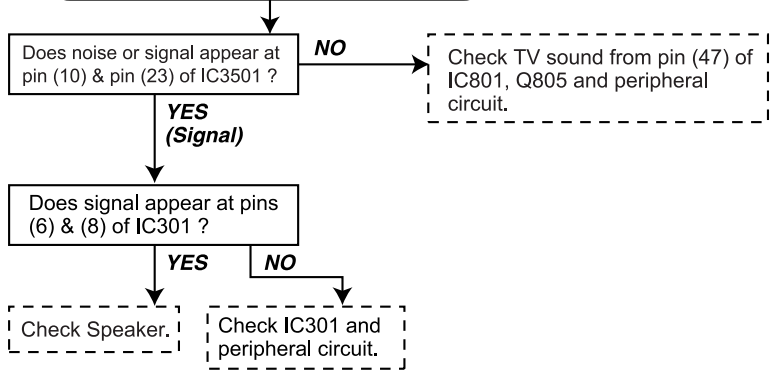

NO RASTER
Check F701.
Blown out.
Normal
Replace the fuse.
Abnormal
Check T702 pin (17) voltage (Approx. 310V at 220V AC)
The fuse is blown out again.
Check NR701.
Normal
Check IC701, D701 and C705.
Check Secondary Main+B (Approx. 125V)
Abnormal
Normal
Check D751, IC702 and IC703.
Check CRT connector K-wire and the signal on it.
Check IC601 for 9V regulator circuit, IC751 for 3.3V regulator circuit, Q752 for 8V regulator circuit and, Q751, Q754 and D804 for 5V regulator circuit and Q753 for 1.8V regulator circuit.
Normal
Abnormal
Normal
Check 185V Bias on CRT board.
Check IC801.
Checking the protector circuit.
YES
Does horizontal circuit oscillate ?
Normal
NO
Check Q601 and Q602.

CIRCUITS TO BE CHECKED:
- Tuner.
- PIF.
- Automatic Gain Control.
- (5V), (32V) Power Source.


NO PICTURE, NO SOUND
Does the noise level increase at max. Contrast, Brightness and Sound controls ?
Noise increases but no signal is received.
No snow noise.
Check the tuner supply voltage LB must approx. 5V. BT must be approx. 33V. And check the CH preset data.
Does noise or signal appear at pin (32) of IC801 ?
NO
YES
Normal
Does noise or signal appear at pin (34) of IC801 ?
Check IC801 and related circuit.
Check the tuner AGC at TP201.
NO
Does noise or signal appear at pin (38) and (39) of IC801 ?
Check IC401 and related circuit.
Normal
Abnormal
NO
YES
Check pin (34) of IC801.
Check pin (37) of IC801, Tuner and related circuit.
Check pin (1) of SF201, Tuner and related circuit.
Check pin (36) at IC801 and related circuit.

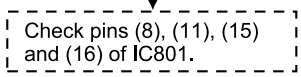
CIRCUITS TO BE CHECKED:
- Audio Output Circuit.

NO SOUND

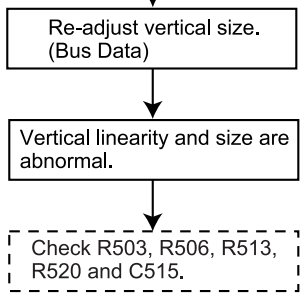

Does noise or signal appear at pin (10) & pin (23) of IC3501 ?
NO
Check TV sound from pin (47) of IC801, Q805 and peripheral circuit.
YES (Signal)
Does signal appear at pins (6) & (8) of IC301 ?
YES
NO
Check Speaker.
Check IC301 and peripheral circuit.

NEITHER VERTICAL NOR HORIZONTAL SYNCHRONIZATION

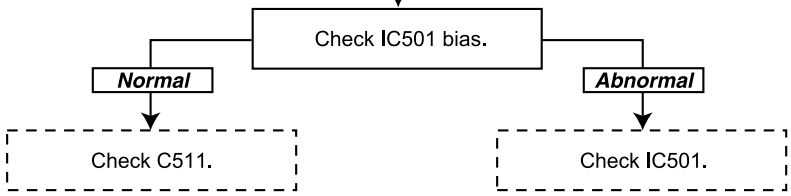
CIRCUIT TO BE CHECKED:
- Sync. Separator Circuit.

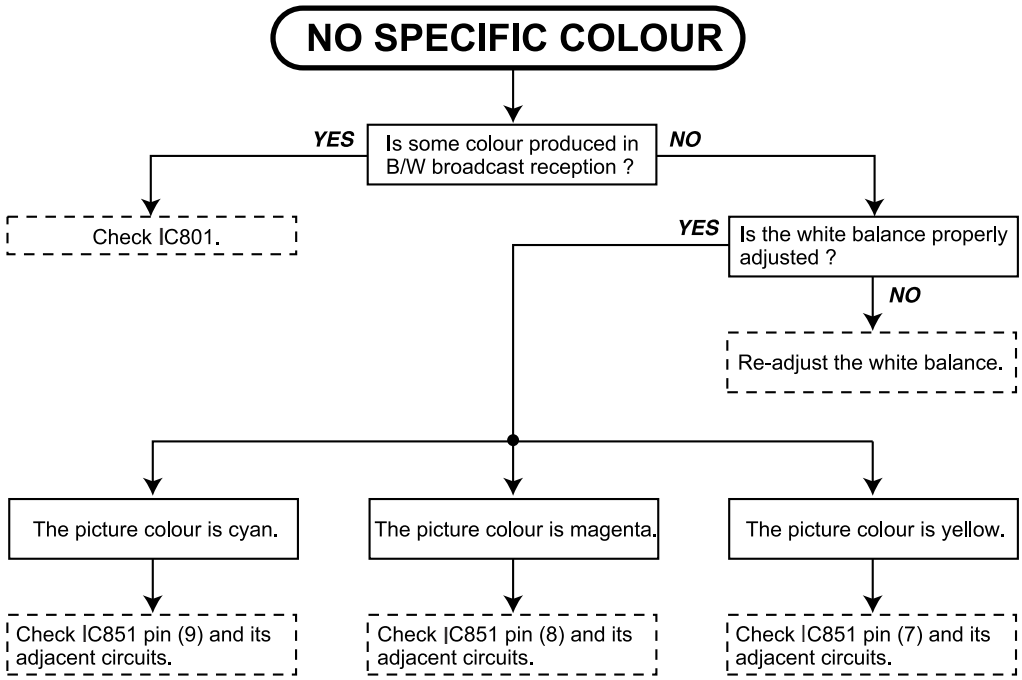


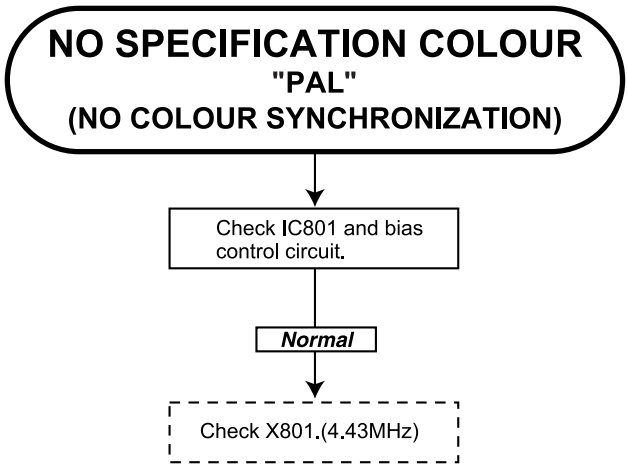
DEFECTIVE VERTICAL AMP. AND VERTICAL LINEARITY



NO VERTICAL SCAN



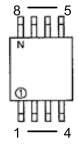

NO SPECIFIC COLOUR
YES
Is some colour produced in B/W broadcast reception ?
NO
Check IC801.
YES
Is the white balance properly adjusted ?
NO
Re-adjust the white balance.
The picture colour is cyan.
The picture colour is magenta.
The picture colour is yellow.
Check IC851 pin (9) and its adjacent circuits.
Check IC851 pin (8) and its adjacent circuits.
Check IC851 pin (7) and its adjacent circuits.


NO SPECIFICATION COLOUR
"PAL"
(NO COLOUR SYNCHRONIZATION)
Check IC801 and bias control circuit.
Normal
Check X801.(4.43MHz)

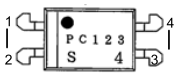
CHAPTER 6. SOLID STATE DEVICE BASE DIAGRAM

[1] SOLID STATE DEVICE BASE DIAGRAM

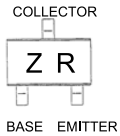
TOP VIEW



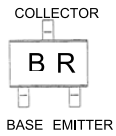
BR24L08F



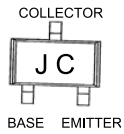
FXA003W



D601A



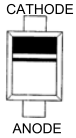
B709A



2SC2735

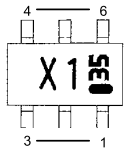
EX1393C

EX0263TA

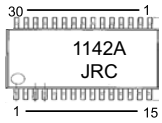


1SS356

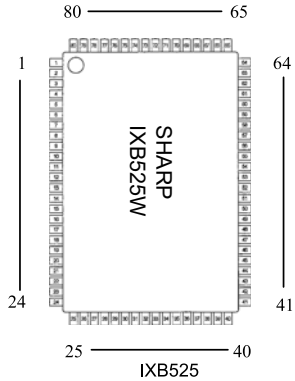
EX0253T



IMX1C/C

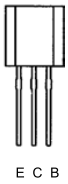


NJW1142A

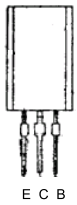


IXB525

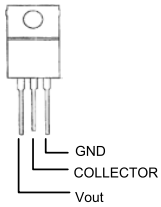
SIDE VIEW



2SC3198

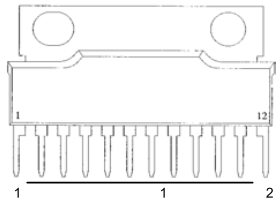


2SD468-C
2SC2235

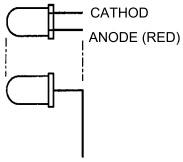


SE125N

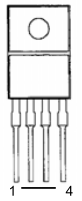
TT2140



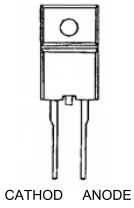
AN17820B



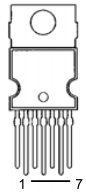
PX0013



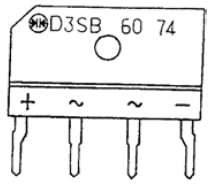
PQ09RDA



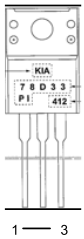
DX0445CE



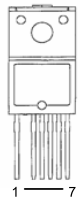
STV9302A



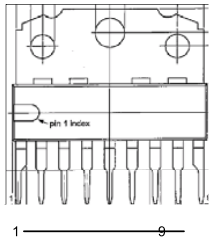
DX0476CE



KIA78D33



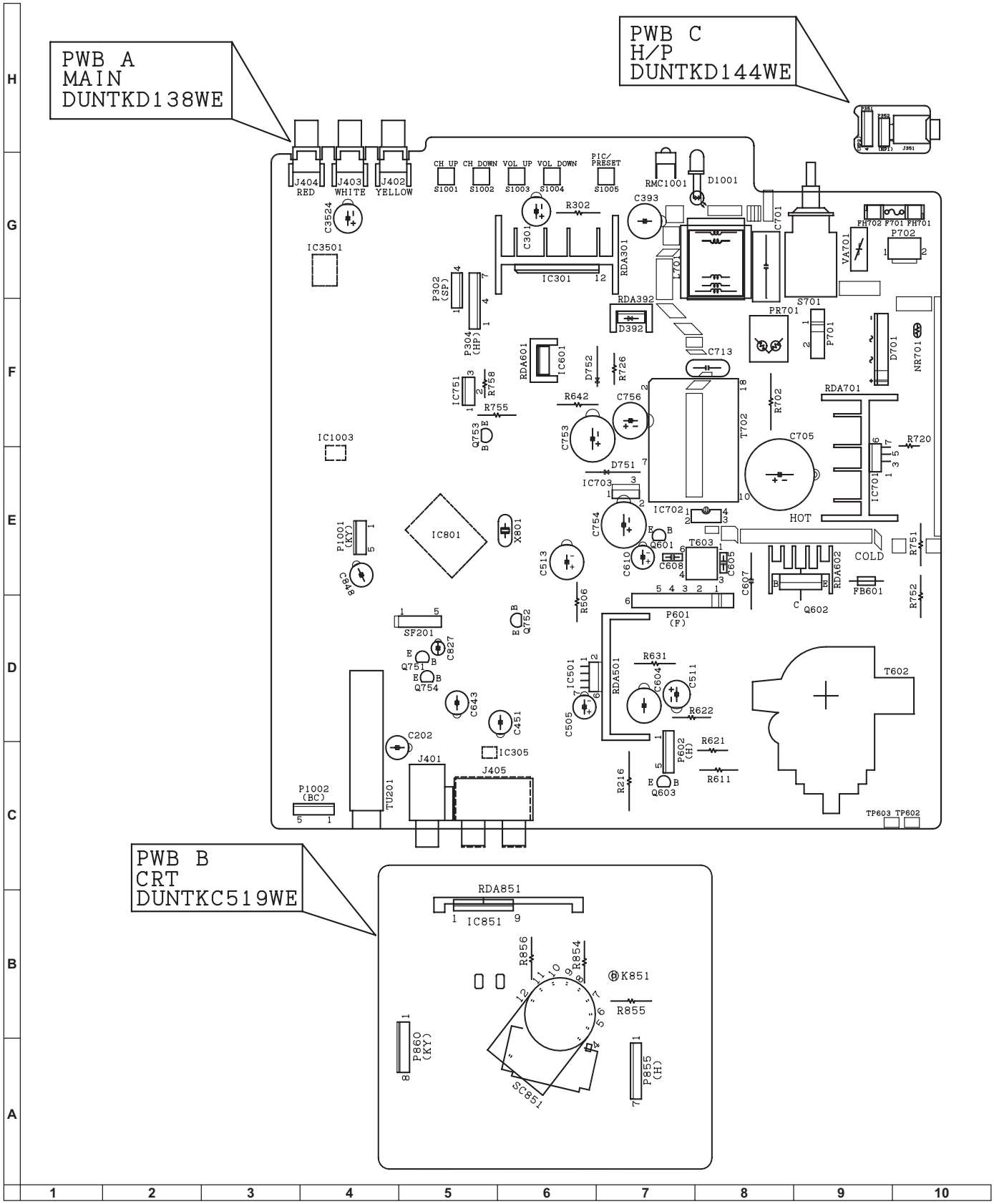
STRW6553



TDA6107J

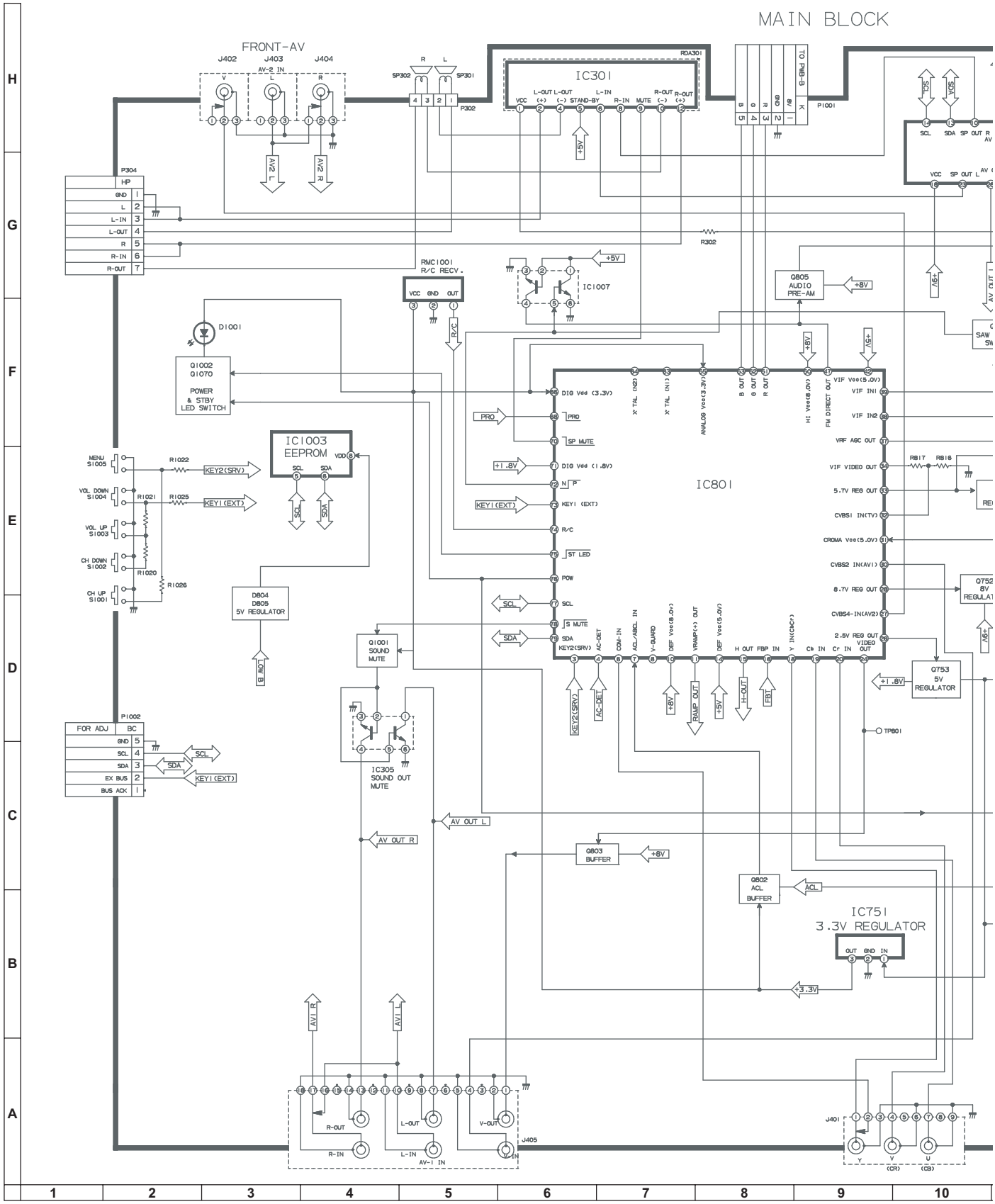
CHAPTER 7. CHASSIS LAYOUT

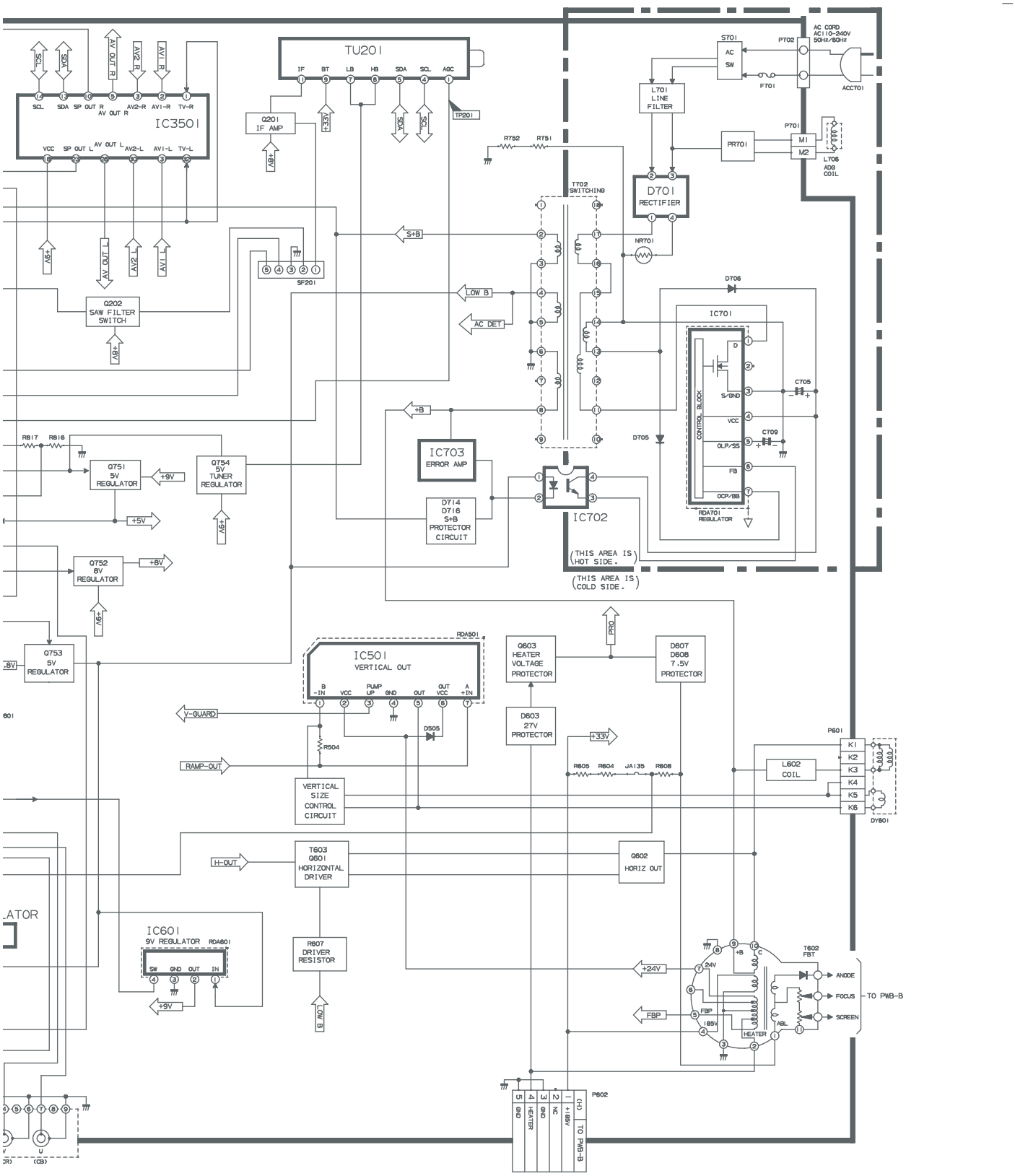
[1] CHASSIS LAYOUT



CHAPTER 8. BLOCK DIAGRAM

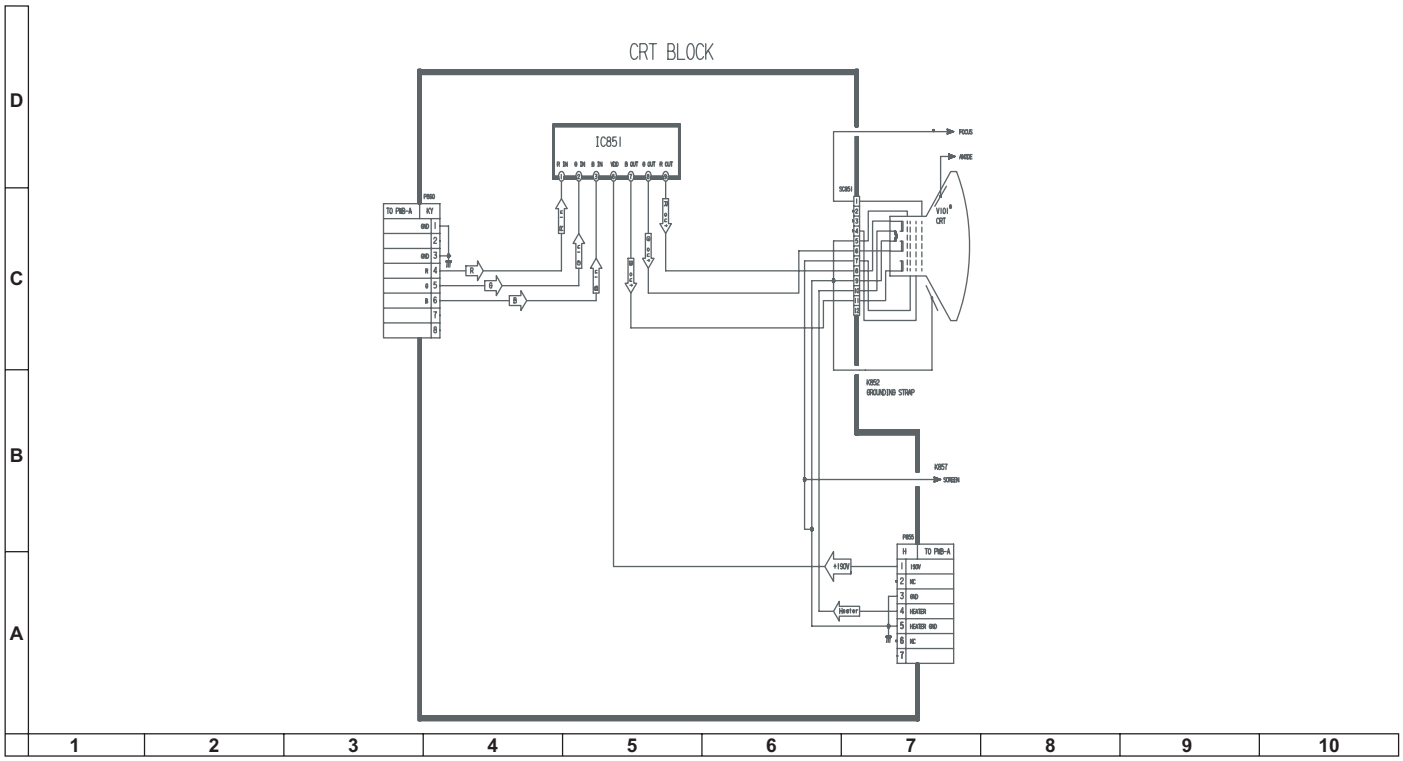
[1] BLOCK DIAGRAM: MAIN UNIT



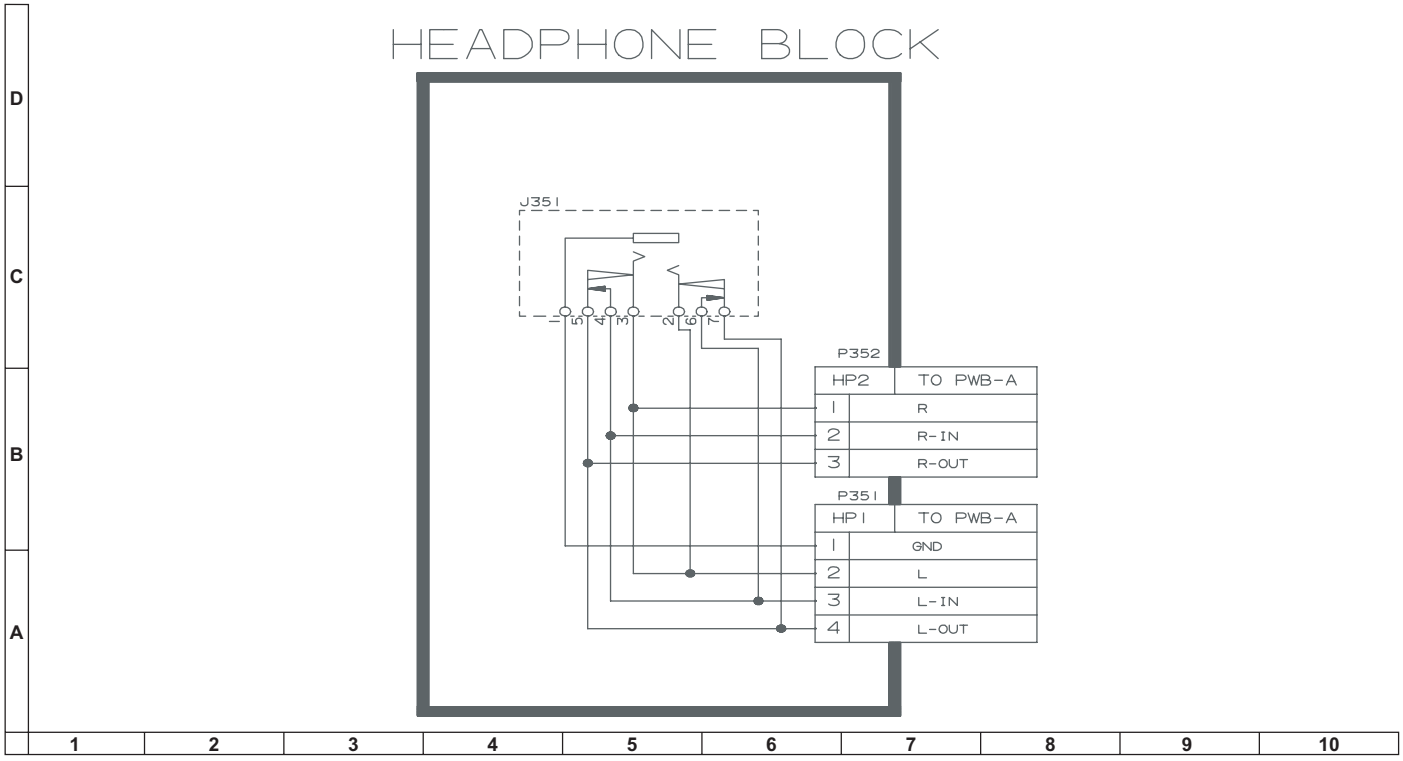


10	11	12	13	14	15	16	17	18	19

[2] BLOCK DIAGRAM: CRT UNIT



[3] BLOCK DIAGRAM: HEADPHONE UNIT



CHAPTER 9. DESCRIPTION OF SCHEMATIC DIAGRAM

[1] DESCRIPTION OF SCHEMATIC DIAGRAM

SAFETY NOTES:

1. DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACING PARTS.
2. SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.

IMPORTANT SAFETY NOTICE:

PARTS MARKED WITH " ⚠ " ( ) ARE IMPOTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

SERVICE PRECAUTION:

THE AREA ENCLOSED BY THIS LINE (—— - ——) IS DIRECTLY CONNECTED WITH AC MAINS VOLTAGE. WHEN SERVICING THE AREA, CONNECT AN ISOLATING TRANSFORMER BETWEEN TV RECEIVER AND AC LINE TO ELIMINATE HAZARD OF ELECTRIC SHOCK.

NOTES:

1. The unit of resistance "ohm" is omitted. (K = 1000 ohms, M = Mega ohm).
2. All resistors are 1/16 watt, unless otherwise noted.
3. All capacitors are μF, unless otherwise noted. (P = μμF).

VOLTAGE MEASUREMENT CONDITIONS:

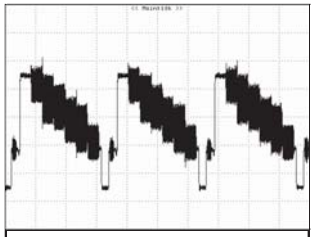
1. Voltages in parenthesis measured with no signal.
2. Voltages without parenthesis measured with 3mV B & W or Colour signal.
3. All the voltages in each point are measured with VTVM.

WAVEFORM MEASUREMENT CONDITIONS:

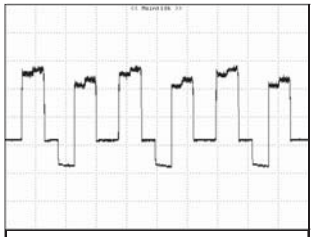
1. The colour bar generator signal of 1.0V peak applied at pin (32) of IC801.
2. Approximately 4V AGC bias.

CHAPTER 10. WAVEFORM

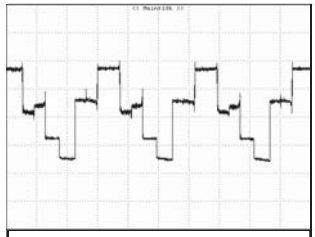
[1] WAVEFORMS



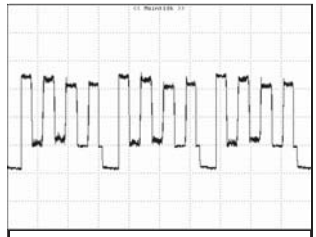
(1) 0.96 Vp-p (H)



(2) 3.50 Vp-p (H)

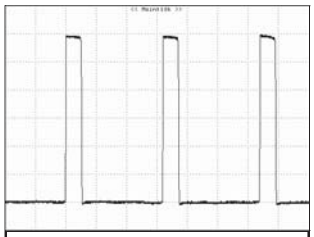


(3) 3.30 Vp-p (H)

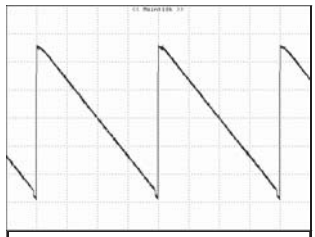


(4) 3.35 Vp-p (H)

(5) 0.90 Vp-p (H)



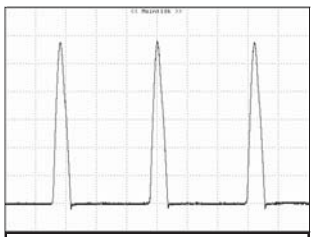
(6) 5.88 Vp-p (H)



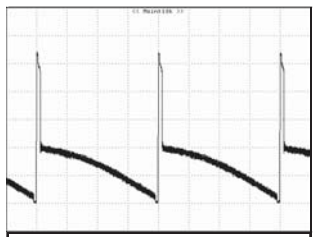
(7) 2.70 Vp-p (V)

(8) 0.73 Vp-p (H)

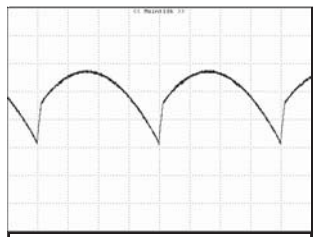
(9) 48.0 Vp-p (H)



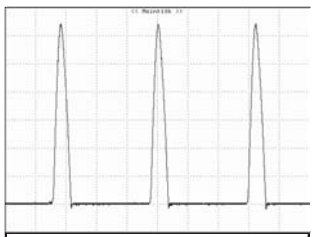
(10) 1150 Vp-p (H)



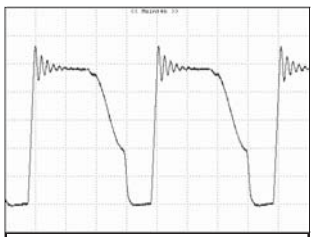
(11) 54.0 Vp-p (V)



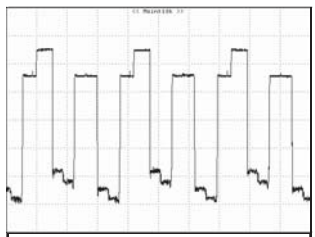
(12) 5.20 Vp-p (V)



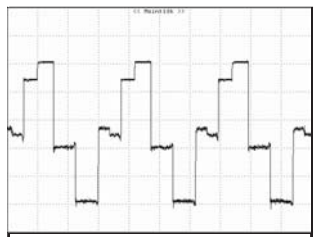
(13) 127.0 Vp-p (H)



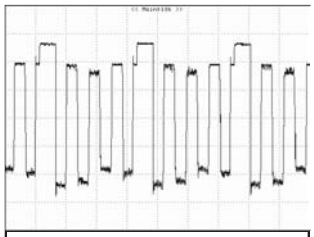
(14) 562.0 Vp-p



(15) 107.6 Vp-p (H)



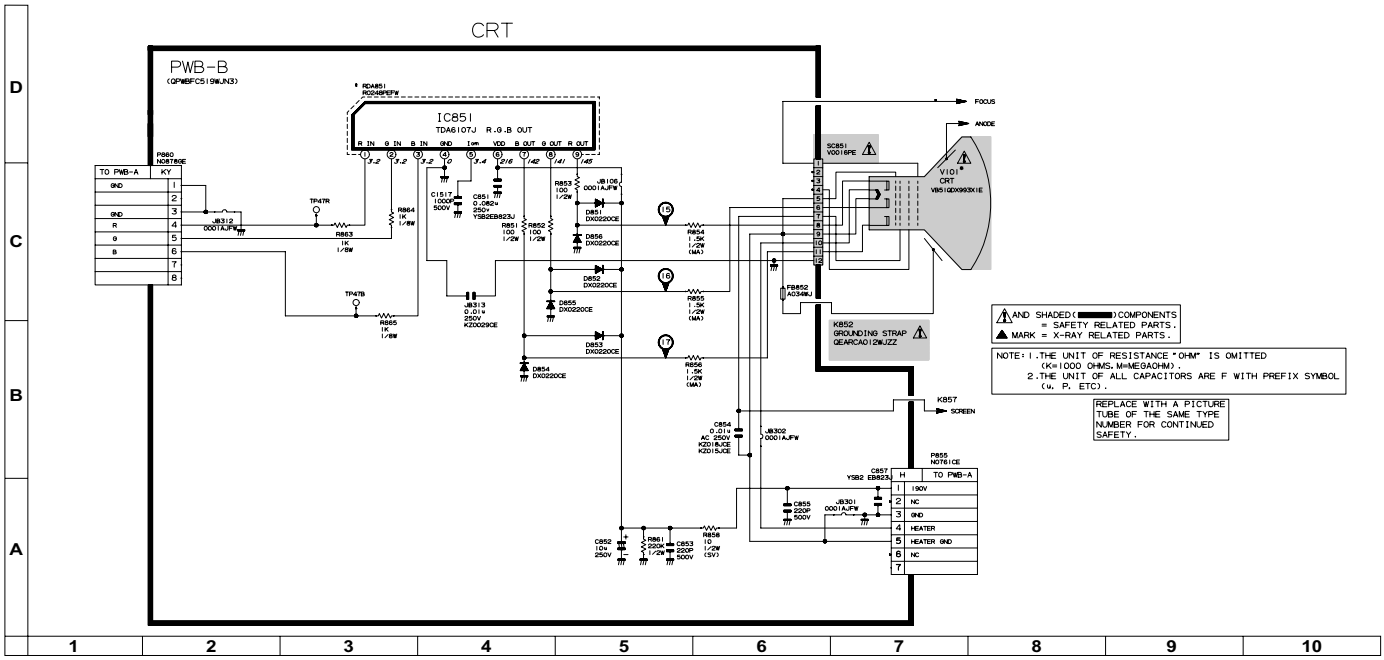
(16) 99.4 Vp-p (H)



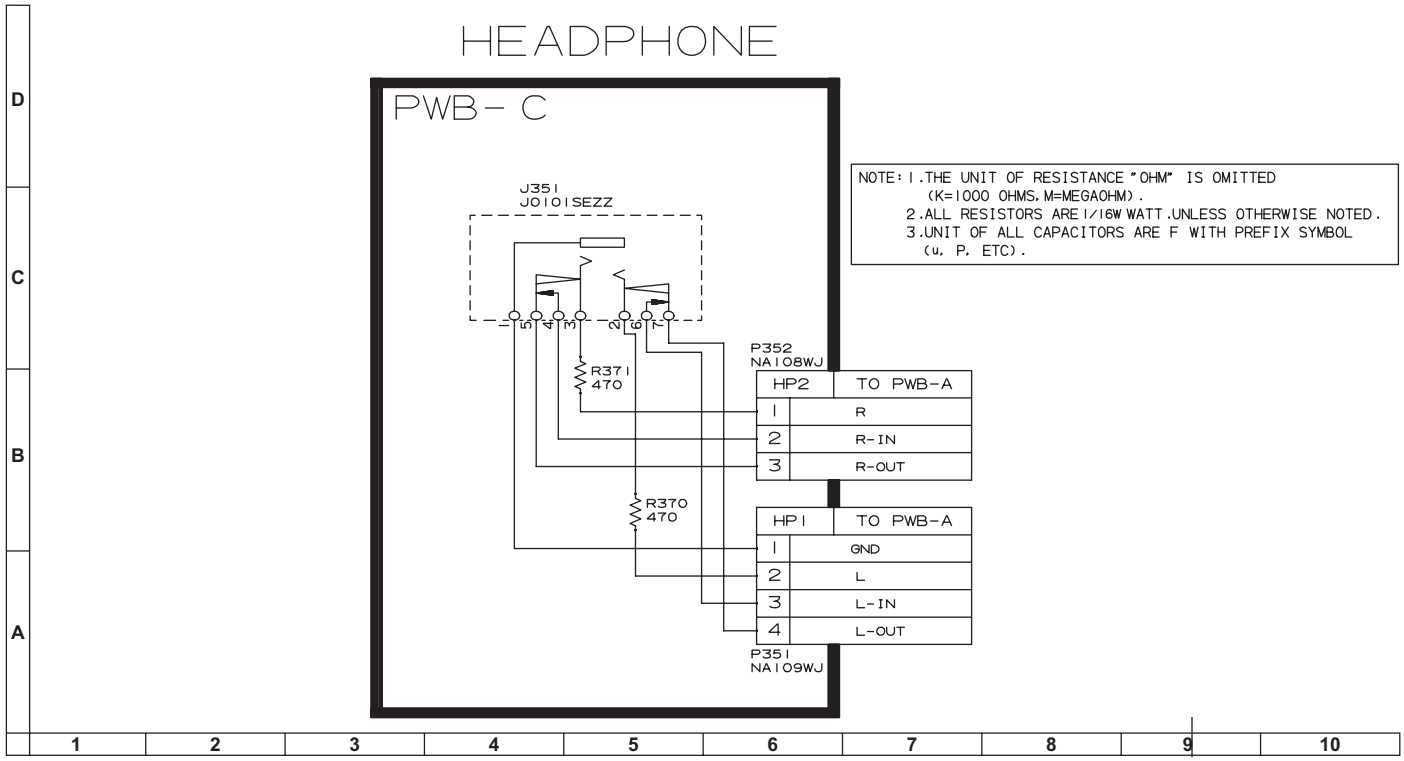
(17) 101.3 Vp-p (H)

CHAPTER 11. SCHEMATIC DIAGRAM

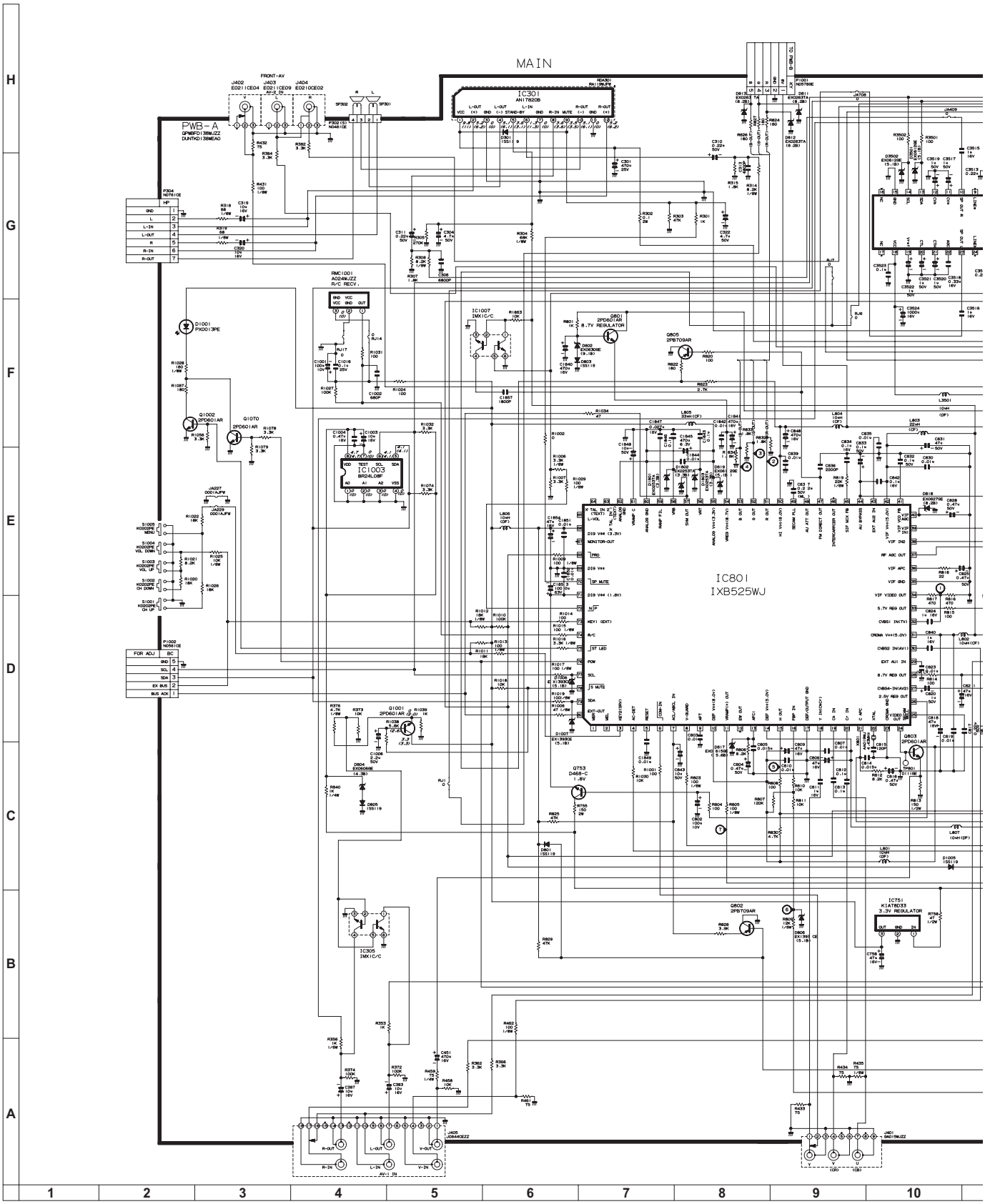
[1] SCHEMATIC DIAGRAM: CRT UNIT

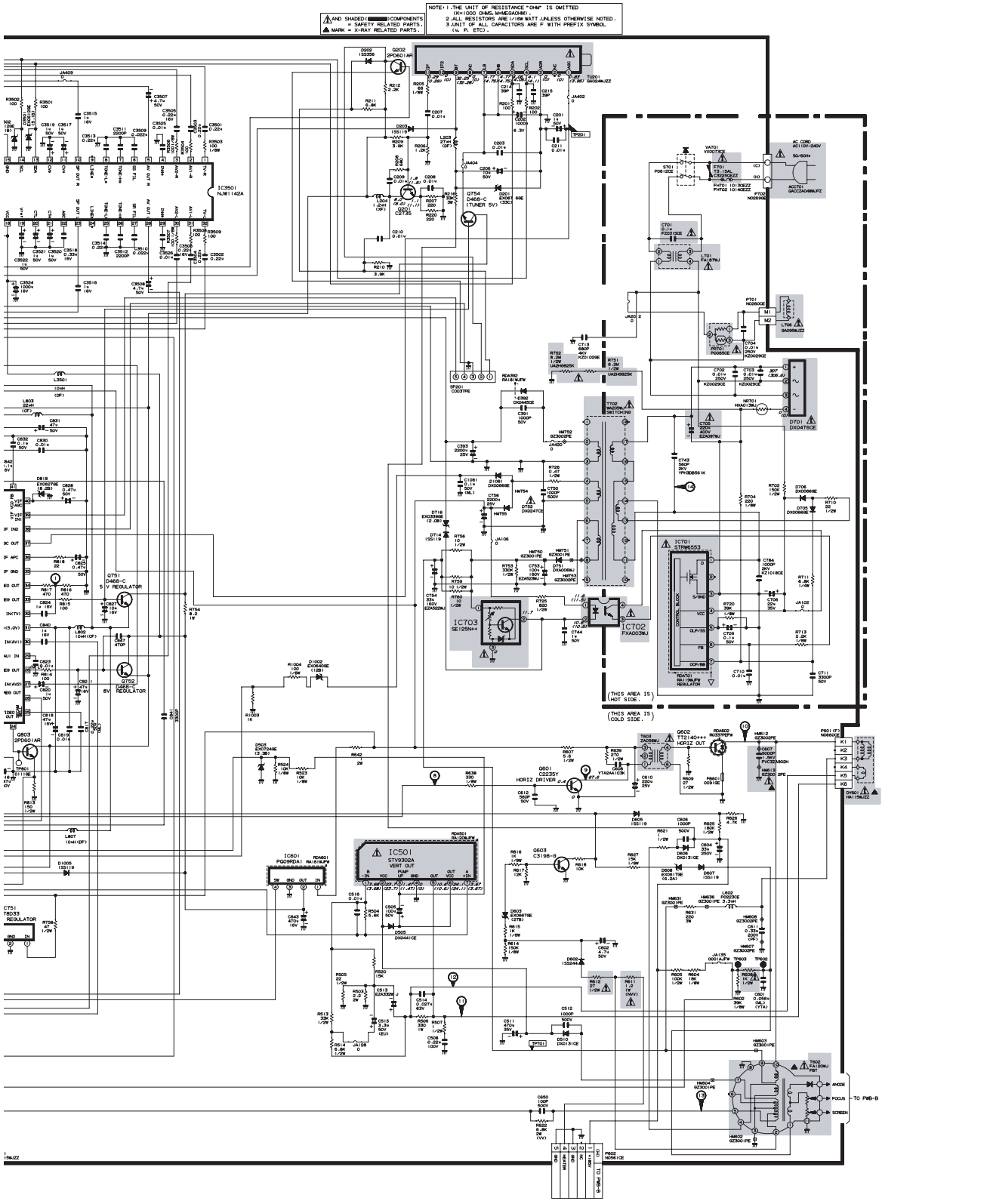


[2] SCHEMATIC DIAGRAM: HEADPHONE UNIT



[3] SCHEMATIC DIAGRAM: MAIN UNIT



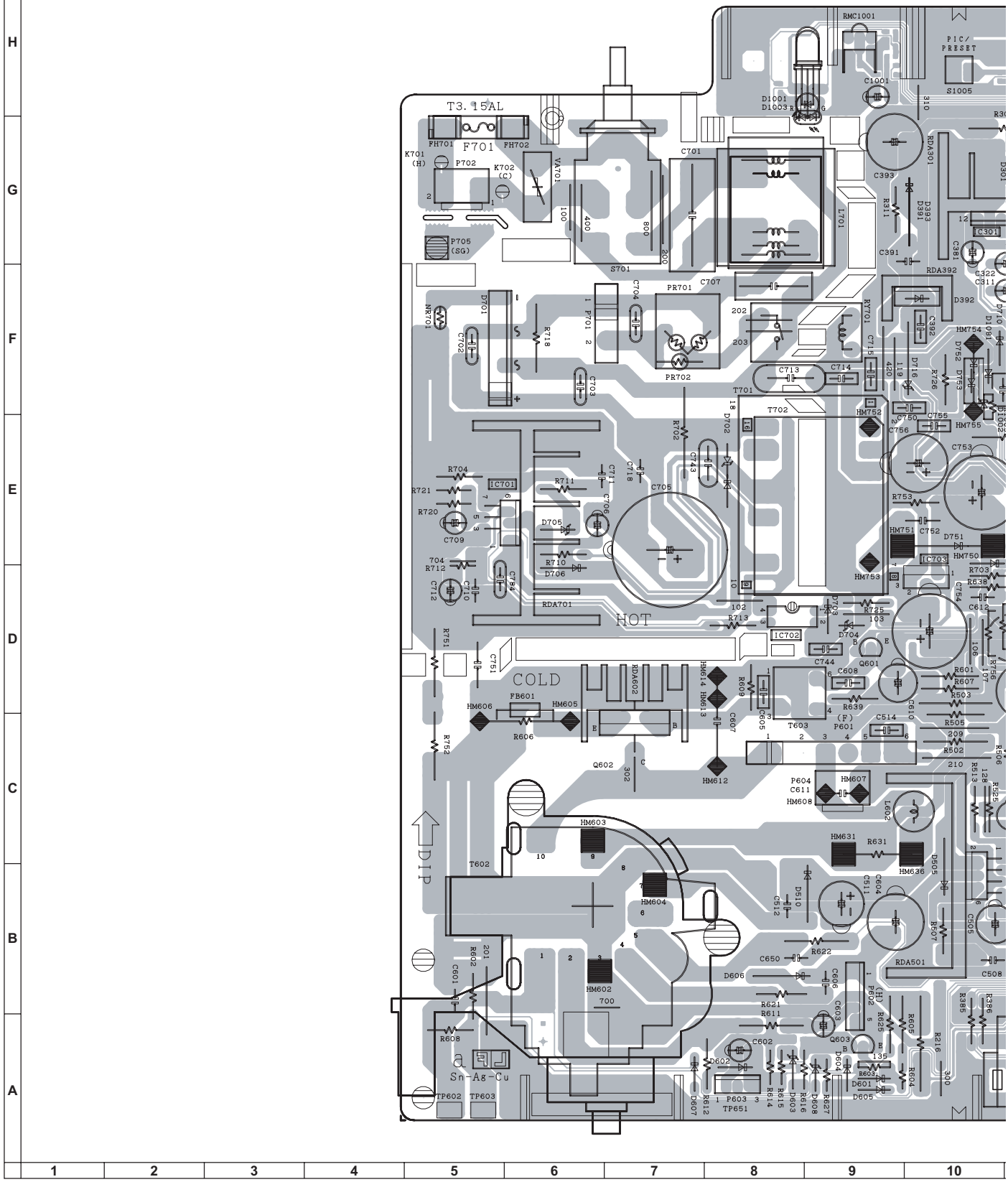


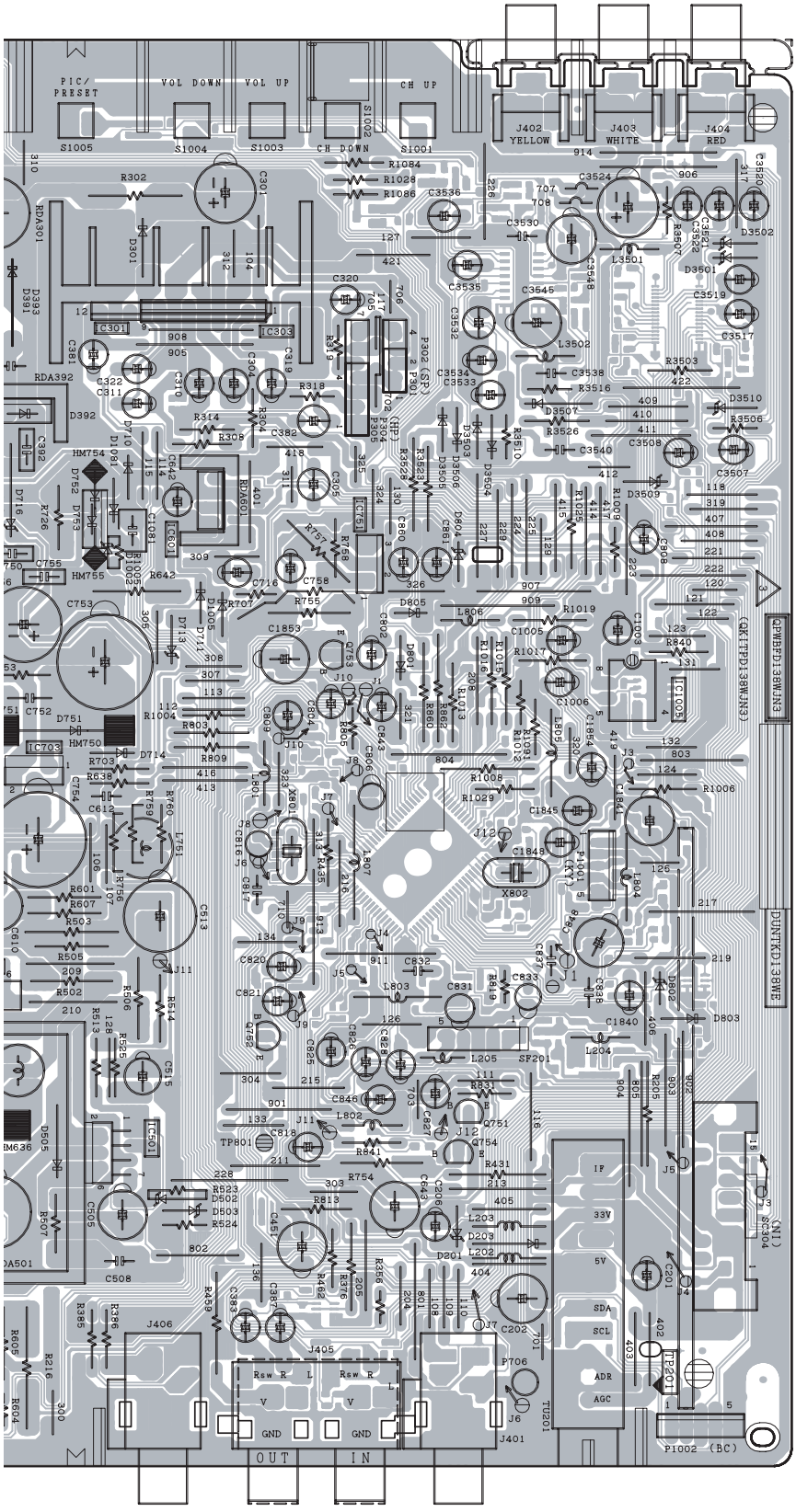
10	11	12	13	14	15	16	17	18	19

CHAPTER 12. PRINTED WIRING BOARD ASSEMBLIES

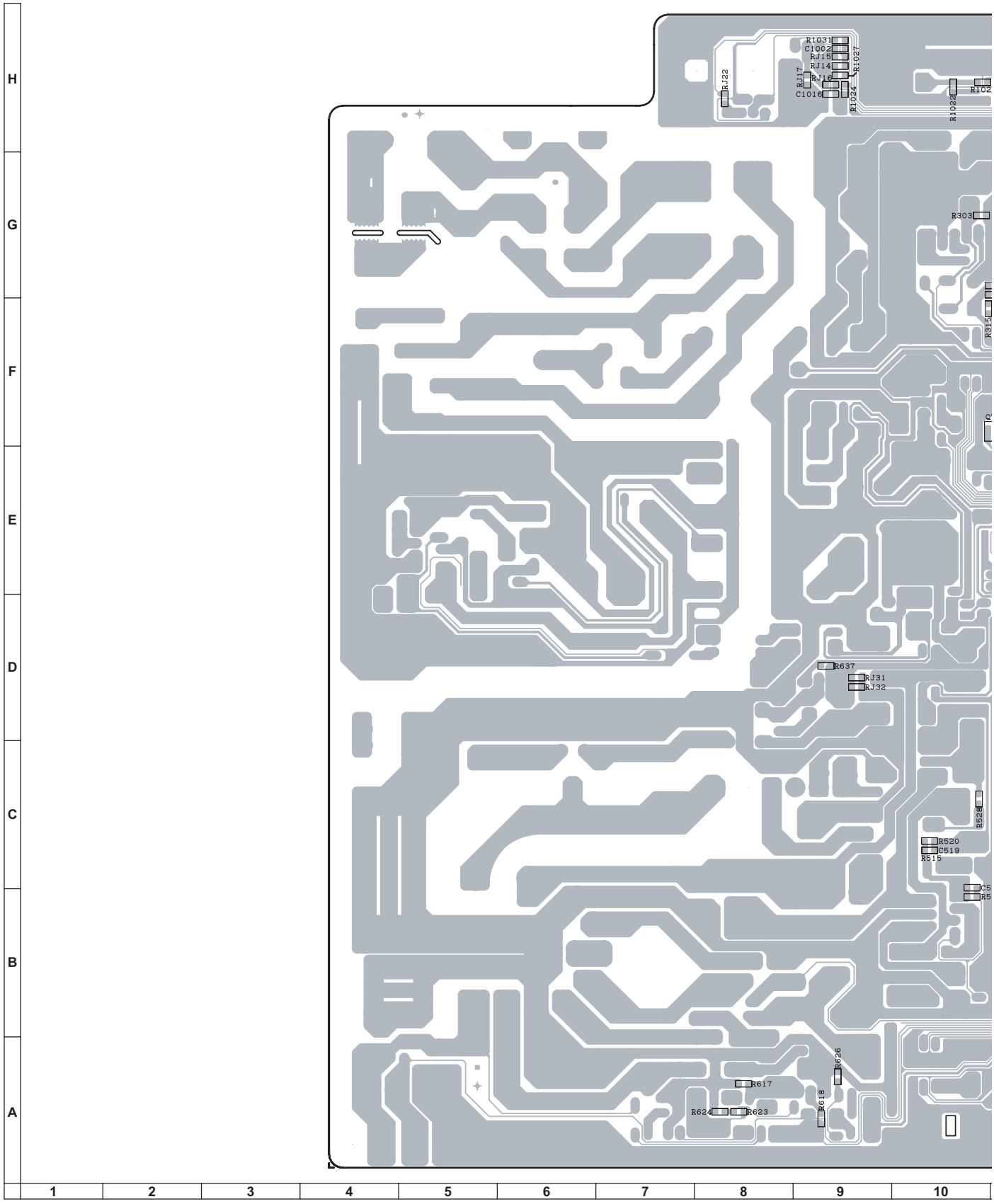
[1] PWB-A: MAIN UNIT

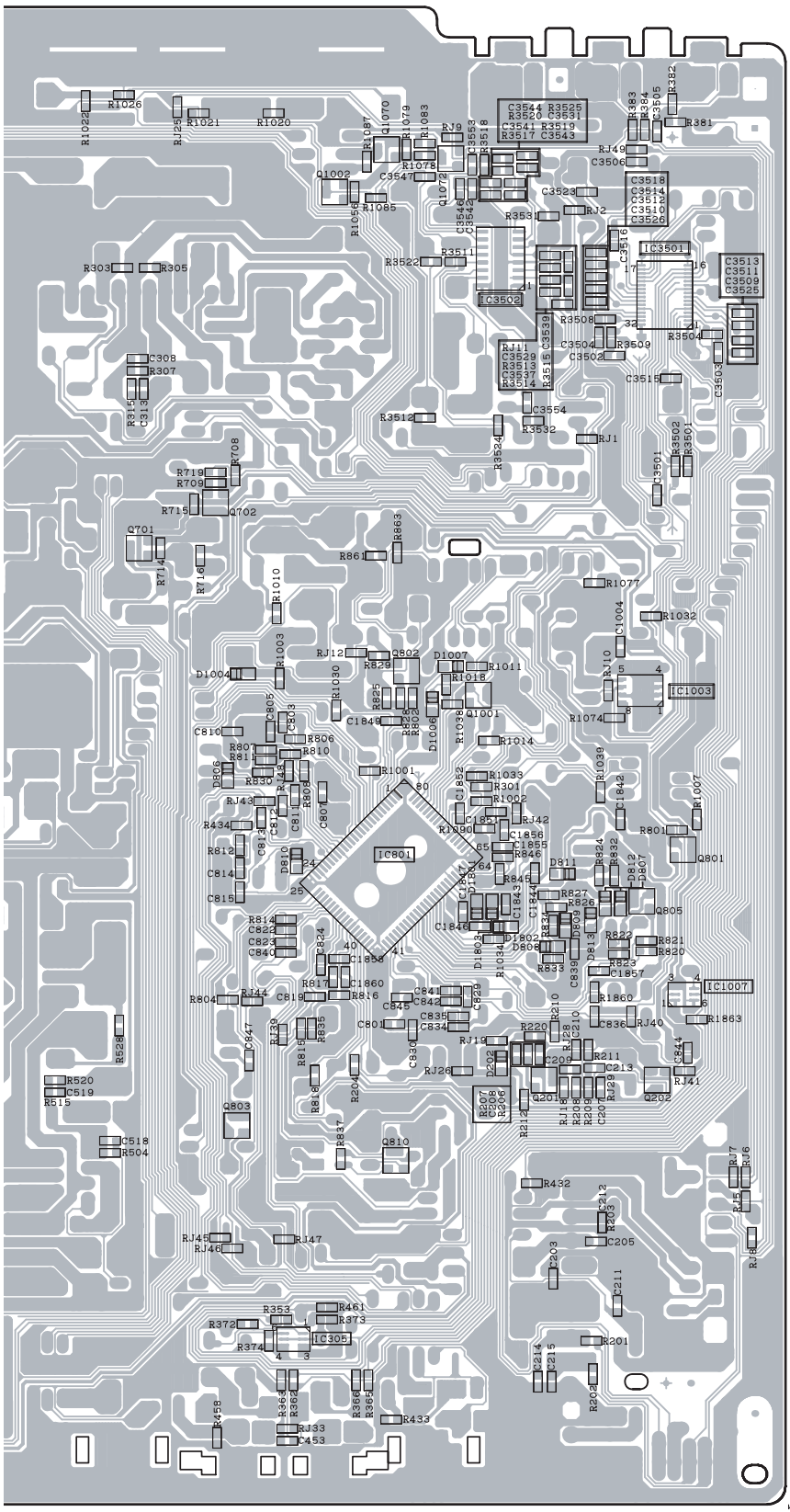
1. MAIN UNIT (Component Side)




PIC/ PRESET
VOL DOWN
VOL UP
CH UP
CH DOWN
S1005
S1004
S1003
S1002
S1001
J402 YELLOW
J403 WHITE
J404 RED
OUT
IN
GND
GND
P1002 (BC)
J401
J406
J405
TU201
IC301
IC303
IC703
IC501
IC1001
IC1005
X801
X802
SF201
SF304 (NI)
CPWEFD138WJN3
DUNTKD138WJE
(CKTPD138WJN3)
HM754
HM755
HM750
HM636
RDA392
RDA301
RDA501
RDA601
TP801
P706
P1001
P1201
P301 (SP)
P302 (HP)
P304
P305
Rsw R
Rsw R
33V
5V
SDA
SCL
ADR
AGC
IF

2. MAIN UNIT (Chip Parts Side)



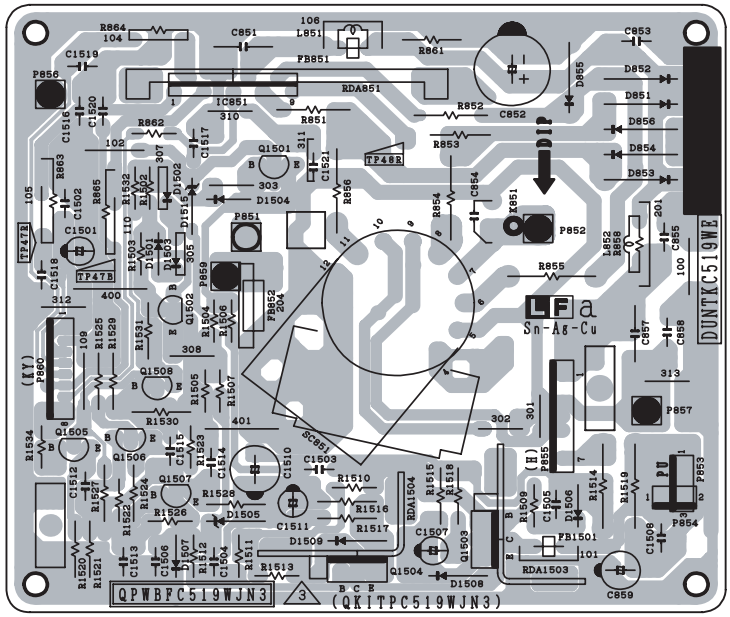


10	11	12	13	14	15	16	17	18	19

[2] PWB-B: CRT UNIT

1. CRT UNIT (Component Side)

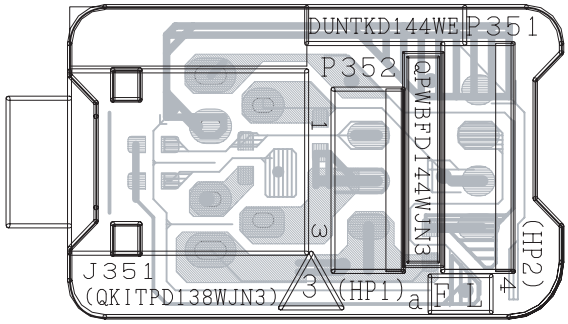
Component Side



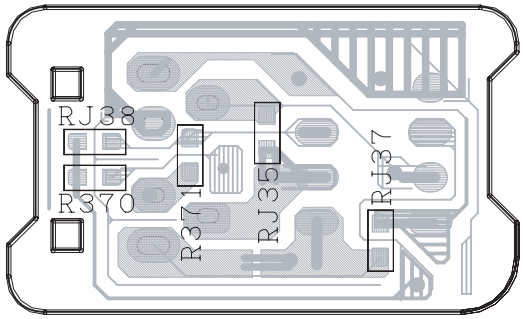
[3] PWB-C: HEADPHONE UNIT

1. HEADPHONE UNIT (Component Side) (Chip Parts Side)

Component Side



Chip Parts Side



SHARP PARTS GUIDE

No. S16072KFD1SF

MODEL 21K-FD1SF

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[1] PICTURE TUBE

[2] PRINTED WIRING BOARD ASSEMBLIES

[3] MAIN UNIT

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[6] MISCELLANEOUS PARTS

[7] SUPPLIED ACCESSORIES

[8] CABINET PARTS

[9] PACKING PARTS

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Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

SHARP CORPORATION

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The contents are subject to change without notice.

	NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
	[1] PICTURE TUBE					
⚠		VB51QDX993X1E	CG		R	Pictube Tube (SEMI-ITC)
⚠		RCiLGA095WJZZ	AM		R	Degaussing Coil
		QEARCA012WJZZ	AG		R	Ground Part
		PMAGF3046CEZZ	AF		R	Purity Magnet
	[2] PRINTED WIRING BOARD ASSEMBLIES					
		DUNTKD138WEA0	−		−	MAIN Unit
		DUNTKC519WEB9	−		−	CRT Unit
		DUNTKD144WEA0	−		−	HEADPHONE Unit
	[3] MAIN UNIT					
⚠	TU201	RTUNQA024WJZZ	AX		R	Tuner
	IC301	VHiAN17820B-1	AL		R	IC , AN17820B
	IC305	VSiMX1C/C//-1Y	AC		R	IC , IMX1C
⚠	IC501	VHiSTV9302A-1	AH		R	IC , STV9302A
	IC601	VHiPQ09RDA1-1	AF		R	IC , PQ090RDA1SZ
⚠	IC701	VHiSTRW6553-1	AN		R	IC , STRW6553
⚠	IC702	RH-FXA003WJZZ	AD		R	IC , PC123Y82
⚠	IC703	VHiSE125N++-F	AG		R	IC , SE125N
	IC751	VHiKiA78D33-1	AF		R	IC , KIA78D33
	IC801	RH-iXB525WJZZ	BA		R	IC , IXB525W
	IC1003	VHiBR24L08F-1Y	AE		R	IC , BR24L08F-WE2
	IC1007	VSiMX1C/C//-1Y	AC		R	IC , IMX1C
	IC3501	VHiNJW1142A-1Y	AM		R	IC , NJW1142A
	Q201	VS2SC2735//1EY	AC		R	Transistor , 2SC2735
	Q202	VS2PD601AR/-1Y	AB		R	Transistor , 2PD601AR
	Q601	VS2SC2235Y/1E+	AE		R	Transistor , 2SC2235Y
	Q602	VSTT2140+++-F	AG		R	Transistor , TT2140
	Q603	VS2SC3198-G-1+	AA		R	Transistor , 2SC3198
	Q751	VS2SD468-C/-1+	AD		R	Transistor , 2SD468
	Q752	VS2SD468-C/-1+	AD		R	Transistor , 2SD468
	Q753	VS2SD468-C/-1+	AD		R	Transistor , 2SD468
	Q754	VS2SD468-C/-1+	AD		R	Transistor , 2SD468
	Q801	VS2PD601AR/-1Y	AB		R	Transistor , 2PD601AR
	Q802	VS2PB709AR/-1Y	AB		R	Transistor , 2PB709AR
	Q803	VS2PD601AR/-1Y	AB		R	Transistor , 2PD601AR
	Q805	VS2PB709AR/-1Y	AB		R	Transistor , 2PB709AR
	Q1001	VS2PD601AR/-1Y	AB		R	Transistor , 2PD601AR
	Q1002	VS2PD601AR/-1Y	AB		R	Transistor , 2PD601AR
	Q1070	VS2PD601AR/-1Y	AB		R	Transistor , 2PD601AR
	D201	RH-EX0676GEZZY	AA		R	Zener Diode , 33V
	D202	VHD1SS356//-1Y	AC		R	Diode , 1SS356
	D203	VHD1SS119//-1Y	AA		R	Diode , 1SS119
	D301	VHD1SS119//-1Y	AA		R	Diode , 1SS119
	D392	RH-DX0445CEZZ	AL		R	Diode ,DX0445CE
	D503	RH-EX0724GEZZY	AB		R	Zener Diode , 3.53V
	D505	RH-DX0441CEZZY	AC		R	Diode ,DX0441CE
	D510	RH-DX0131CEZZY	AC		R	Diode ,DX0131CE
	D602	VHD1SS244//-1Y	AB		R	Diode , 1SS244
	D603	RH-EX0667GEZZY	AA		R	Zener Diode , 27V
	D605	VHD1SS119//-1Y	AA		R	Diode , 1SS119
	D606	RH-DX0131CEZZY	AC		R	Diode ,DX0131CE
	D607	VHD1SS119//-1Y	AA		R	Diode , 1SS119
	D608	RH-EX0617GEZZY	AA		R	Zener Diode , 6.2V
⚠	D701	RH-DX0476CEZZ	AG		R	Diode ,DX0476CE
	D705	RH-DX0066GEZZY	AC		R	Diode ,DX0066CE
	D706	RH-DX0066GEZZY	AC		R	Diode ,DX0066CE
	D714	VHD1SS119//-1Y	AA		R	Diode , 1SS119
	D716	RH-EX0339GEZZY	AB		R	Diode ,EX0339GE
	D751	RH-DXA006WJZZ	AD		R	Diode ,DXA006WJ
	D752	RH-DX0247CEZZ	AE		R	Diode ,DX0247CE
	D801	VHD1SS119//-1Y	AA		R	Diode , 1SS119
	D802	RH-EX0630GEZZY	AA		R	Zener Diode , 9.1V
	D803	VHD1SS119//-1Y	AA		R	Diode , 1SS119
	D804	RH-EX0606GEZZY	AB		R	Zener Diode , 4.43V
	D805	VHD1SS119//-1Y	AA		R	Diode , 1SS119
	D806	RH-EX1393CEZZY	AB		R	Zener Diode , 5.2V
	D811	RH-EX0263TAZZY	AC		R	Zener Diode , 8.1V
	D812	RH-EX0263TAZZY	AC		R	Zener Diode , 8.1V
	D813	RH-EX0263TAZZY	AC		R	Zener Diode , 8.1V
	D817	RH-EX0615GEZZY	AA		R	Zener Diode , 5.73V
	D818	RH-EX0627GEZZY	AA		R	Zener Diode , 8.19V
	D819	RH-EX0612GEZZY	AB		R	Zener Diode , 5.1V
	D1001	RH-PX0013PEZZ	AC		R	Diode , Photodiode
	D1002	RH-EX0640GEZZY	AA		R	Zener Diode , 12.03V
	D1005	VHD1SS119//-1Y	AA		R	Diode , 1SS119
	D1006	RH-EX1393CEZZY	AB		R	Zener Diode , 5.2V
	D1007	RH-EX1393CEZZY	AB		R	Zener Diode , 5.2V
	D1081	RH-DX0066GEZZY	AC		R	Diode ,DX0066CE
	D1801	RH-EX0253TAZZY	AC		R	Zener Diode , 3.53V
	D1802	RH-EX0253TAZZY	AC		R	Zener Diode , 3.53V
	D1803	RH-EX0253TAZZY	AC		R	Zener Diode , 3.53V
	D3501	RH-EX0612GEZZY	AB		R	Zener Diode , 5.1V
	D3502	RH-EX0612GEZZY	AB		R	Zener Diode , 5.1V

	NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
	[3] MAIN UNIT					
⚠	VA701	RH-VX0073CEZZ	AD		R	Varistor
⚠	PR701	RMPTP0085CEZZ	AL		R	Packaged Circuit
	X801	RCRSAA019WJZZ	AF		R	Crystal
	L203	VP-DF270K0000Y	AB		R	Peaking 27μH
	L204	VP-XF1R2K0000Y	AB		R	Peaking 1.2μH
	L602	RCiLP0223CEZZ	AE		R	Coil
⚠	L701	RCiLFA187WJZZ	AD		R	Coil
	L801	VP-DF100K0000Y	AB		R	Peaking 10μH
	L802	VP-CF100K0000Y	AB		R	Peaking 10μH
	L803	VP-CF220K0000Y	AB		R	Peaking 22μH
	L804	VP-CF100K0000Y	AB		R	Peaking 10μH
	L805	VP-CF330K0000Y	AB		R	Peaking 33μH
	L806	VP-DF100K0000Y	AB		R	Peaking 10μH
	L807	VP-DF100K0000Y	AB		R	Peaking 10μH
	L3501	VP-DF100K0000Y	AB		R	Peaking 10μH
	SF201	RFiLC0037PEZZ	AP		R	Filter
⚠	T602	RTRNFA120WJZZ	AW		R	H-Volt Transformer
⚠	T603	RTRNZA058WJZZ	AD		R	Transformer
⚠	T702	RTRNWA205WJZZ	AA		R	Transformer
	C201	VCEA0A1HW105M+	AB		R	1 50V Electrolytic
	C202	VCEA0A0JW108M+	AC		R	1000 6.3V Electrolytic
	C203	VCKYCY1HF103ZY	AA		R	0.01 50V Ceramic
	C206	VCEA0A1HW106M+	AB		R	10 50V Electrolytic
	C207	VCKYCY1HF103ZY	AA		R	0.01 50V Ceramic
	C208	VCKYCY1HF103ZY	AA		R	0.01 50V Ceramic
	C209	VCKYCY1HF103ZY	AA		R	0.01 50V Ceramic
	C210	VCKYCY1HF103ZY	AA		R	0.01 50V Ceramic
	C211	VCKYCY1HF103ZY	AA		R	0.01 50V Ceramic
	C214	VCCCCY1HH390JY	AA		R	39p 50 Ceramic
	C215	VCCCCY1HH390JY	AA		R	39p 50 Ceramic
	C301	VCEA0A1EW477M+	AD		R	470 25V Electrolytic
	C304	VCEA0A1HW475M+	AB		R	4.7 50V Electrolytic
	C308	VCKYCY1HB682KY	AA		R	6800p 50V Ceramic
	C310	VCEA0A1HW224M+	AB		R	0.22 50V Electrolytic
	C311	VCEA0A1HW224M+	AB		R	0.22 50V Electrolytic
	C313	VCKYCY1HB682KY	AB		R	6800p 50V Ceramic
	C319	VCEA0A1CW106M+	AB		R	10 16V Electrolytic
	C320	VCEA0A1CW106M+	AB		R	10 16V Electrolytic
	C322	VCEA0A1HW475M+	AB		R	4.7 50V Electrolytic
	C383	VCEA0A1CW106M+	AB		R	10 16V Electrolytic
	C387	VCEA0A1CW106M+	AB		R	10 16V Electrolytic
	C391	VCKYPA1HB102K+	AA		R	1000p 50V Ceramic
	C393	VCEA0A1EW228M+	AE		R	2200 25V Electrolytic
	C451	VCEA0A1CW477M+	AC		R	470 16V Electrolytic
	C505	VCEA0A1HW107M+	AB		R	100 50V Electrolytic
	C508	VCFYAA2AA224J+	AD		R	0.22 100V Mylar
	C511	VCEA0A1VW477M+	AB		R	470 35V Electrolytic
	C512	VCKYPA2HB102K+	AB		R	1000p 500V Ceramic
	C513	RC-EZA332WJZZ+	AD		R	Capacitor
	C514	VCFYSA1JB273J+	AC		R	0.27 6.3V Mylar
	C515	VCEACA1HC335J+	AC		R	3.3 50V Electrolytic
	C518	VCKYCY1HB103KY	AA		R	0.01 50V Ceramic
	C601	VCQYTA1HM563J+	AB		R	0.056 50V Mylar
	C602	VCEA0A1HW475M+	AB		R	4.7 50V Electrolytic
	C604	VCEA0A2EW336M+	AD		R	33 250V Electrolytic
	C606	VCKYPA2HB102K+	AB		R	1000p 500V Ceramic
⚠	C607	VCFPVC3ZA902H	AD		R	9000p 1.8kV Metalized Polypro Film
	C608	VCQYTA2AA103K+	AC		R	0.01 100V Mylar
	C610	VCEA0A1EW227M+	AB		R	220 25V Electrolytic
	C611	VCFPVC2DB334J	AD		R	0.33 200V Metalized Polypro Film
	C612	VCKYPA1HB561K+	AA		R	560p 50V Ceramic
	C643	VCEA0A1CW477M+	AC		R	470 16V Electrolytic
	C650	VCKYPA2HB101K+	AB		R	100p 500V Ceramic
⚠	C701	RC-FZ031SCEZZ	AD		R	Capacitor
	C702	RC-KZ0029CEZZ+	AC		R	0.01 250V Ceramic
	C703	RC-KZ0029CEZZ+	AC		R	0.01 250V Ceramic
	C704	RC-KZ0029CEZZ+	AC		R	0.01 250V Ceramic
⚠	C705	RC-EZA097WJZZ	AM		R	220 400V Electrolytic
	C706	VCEA0A1VW226M+	AB		R	22 35V Electrolytic
	C709	VCEA0A1HW104M+	AB		R	0.1 50V Electrolytic
	C710	VCKYPA1HF103Z+	AA		R	0.01 50V Ceramic
	C711	VCKYPA1HB332K+	AB		R	3300p 50V Ceramic
	C713	RC-KZ0102GEZZ	AE		R	Capacitor
	C743	VCKYPH3DB561K	AC		R	560p 2kV Ceramic
	C744	VCFYFA1HA105J+	AE		R	1 50V Mylar
⚠	C750	VCKYPA2HB102K+	AB		R	1000p 500V Ceramic
	C753	RC-EZA523WJZZ	AD		R	Capacitor
	C754	RC-EZA522WJZZ	AD		R	Capacitor
	C756	VCEA0A1EW228M+	AE		R	2200 25V Electrolytic
	C758	VCEA0A1CW476M+	AB		R	47 16V Electrolytic
	C784	RC-KZ1018CEZZ+	AC		R	1000p 2kV Ceramic
	C802	VCEA0A1AW107M+	AB		R	100 10V Electrolytic
	C803	VCKYCY1HB103KY	AA		R	0.01 50V Ceramic
	C804	VCEACA1HC474M+	AC		R	0.47 50V Electrolytic

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[3] MAIN UNIT					
C805	VCKYCY1HB153KY	AA		R	0.15 50V Ceramic
C806	VCEA9M1CW476M+	AB		R	47 16V Electrolytic
C807	VCKYCY1HB103KY	AA		R	0.01 50V Ceramic
C809	VCEA0A1CW476M+	AB		R	47 16V Electrolytic
C810	VCKYCY1HF103ZY	AA		R	0.01 50V Ceramic
C811	VCKYCY1CF105ZY	AA		R	1 16V Ceramic
C812	VCKYCY1HB104KY	AA		R	0.1 50V Ceramic
C813	VCKYCY1HB104KY	AA		R	0.1 50V Ceramic
C814	VCKYCY1HF153ZY	AA		R	0.015 50V Ceramic
C815	VCCCCY1HH121JY	AA		R	120p 50V Ceramic
C816	VCEA9M1HW474M+	AB		R	0.47 50V Electrolytic
C817	VCFYFA1HA224J+	AB		R	0.22 50V MyLAR
C818	VCEA0A1CW476M+	AB		R	47 16V Electrolytic
C819	VCKYCY1HB103KY	AA		R	0.01 50V Ceramic
C820	VCEA0A1HW105M+	AB		R	1 50V Electrolytic
C821	VCEA0A1CW476M+	AB		R	47 16V Electrolytic
C823	VCKYCY1HF103ZY	AA		R	0.01 50V Ceramic
C824	VCKYCY1CF105ZY	AA		R	1 16V Ceramic
C825	VCEA0A1HW474M+	AB		R	0.47 50V Electrolytic
C827	VCEA0A1CW106M+	AB		R	10 16V Electrolytic
C828	VCEA0A1HW474M+	AB		R	0.47 50V Electrolytic
C830	VCKYCY1HB103KY	AA		R	0.01 50V Ceramic
C831	VCEA9M1CW476M+	AB		R	47 16V Electrolytic
C832	VCFYFA1HA104J+	AA		R	0.1 50V Mylar
C833	VCEA9M1HW104M+	AC		R	0.1 50V Electrolytic
C834	VCKYCY1CF104ZY	AA		R	0.1 16V Ceramic
C835	VCKYCY1HF103ZY	AA		R	0.01 50V Ceramic
C836	VCKYCY1HB222KY	AA		R	2200p 50V Ceramic
C837	VCFYFA1HA224J+	AA		R	0.22 50V MyLAR
C839	VCKYCY1HB103KY	AA		R	0.01 50V Ceramic
C840	VCKYCY1CF105ZY	AA		R	1 16V Ceramic
C841	VCKYCY1HB332KY	AA		R	3300p 50V Ceramic
C842	VCKYCY1CF104ZY	AA		R	0.1 16V Ceramic
C843	VCEA0A1HW106M+	AB		R	10 50V Electrolytic
C847	VCKYCY1HB471KY	AA		R	470p 50V Ceramic
C848	VCEA0A1CW477M+	AC		R	470 16V Electrolytic
C1001	VCEA0A1AW107M+	AB		R	100 10V Electrolytic
C1002	VCKYCY1HB681KY	AA		R	680p 50V Ceramic
C1003	VCEA0A1CW106M+	AB		R	10 16V Electrolytic
C1004	VCKYCY1CF474ZY	AB		R	0.47 16V Ceramic
C1006	VCEA0A1HW225M+	AB		R	2.2 50V Electrolytic
C1016	VCKYCY1EF104ZY	AA		R	0.1 25V Ceramic
C1081	VCQYTA1HM104J+	AB		R	0.1 50V Ceramic
C1840	VCEA0A1CW477M+	AC		R	470 16V Electrolytic
C1841	VCEA0A1CW477M+	AC		R	470 16V Electrolytic
C1842	VCKYCY1HB103KY	AA		R	0.01 50V Ceramic
C1843	VCKYCY1HB104KY	AA		R	0.1 50V Ceramic
C1844	VCKYCY1HB103KY	AA		R	0.01 50V Ceramic
C1845	VCEA0A0JW477M+	AC		R	470 6.3V Electrolytic
C1846	VCKYCY1HB104KY	AA		R	0.1 50V Ceramic
C1847	VCKYCY1CB273KY	AB		R	0.027 16V Ceramic
C1848	VCEA0A1HW106M+	AB		R	10 50V Electrolytic
C1849	VCKYCY1HB103KY	AA		R	0.01 50V Ceramic
C1851	VCKYCY1HB103KY	AA		R	0.01 50V Ceramic
C1852	VCKYCY1HB103KY	AA		R	0.01 50V Ceramic
C1853	VCEA0A0JW108M+	AC		R	1000 6.3V Electrolytic
C1854	VCEA0A1CW476M+	AB		R	47 16V Electrolytic
C1857	VCKYCY1HB182KY	AA		R	1800p 50V Ceramic
C3501	VCKYCY1HF224ZY	AA		R	0.22 50V Ceramic
C3502	VCKYCY1HF224ZY	AA		R	0.22 50V Ceramic
C3503	VCKYCY1HF224ZY	AA		R	0.22 50V Ceramic
C3504	VCKYCY1HF224ZY	AA		R	0.22 50V Ceramic
C3505	VCKYCY1CF224ZY	AA		R	0.22 16V Ceramic
C3506	VCKYCY1CF224ZY	AA		R	0.22 16V Ceramic
C3507	VCEA0A1HW475M+	AB		R	4.7 50V Electrolytic
C3508	VCEA0A1HW475M+	AB		R	4.7 50V Electrolytic
C3509	VCKYCY1HF223ZY	AB		R	0.022 50V Ceramic
C3510	VCKYCY1HF223ZY	AB		R	0.022 50V Ceramic
C3511	VCKYCY1HB222KY	AA		R	2200p 50V Ceramic
C3512	VCKYCY1HB222KY	AA		R	2200p 50V Ceramic
C3513	VCKYCY1HF224ZY	AA		R	0.22 50V Ceramic
C3514	VCKYCY1HF224ZY	AA		R	0.22 50V Ceramic
C3515	VCKYCY1AB105KY	AA		R	1 10V Ceramic
C3516	VCKYCY1AB105KY	AA		R	1 10V Ceramic
C3517	VCEA0A1HW105M+	AB		R	1 50V Electrolytic
C3518	VCKYCY1CF334ZY	AB		R	0.33 16V Ceramic
C3519	VCEA0A1HW105M+	AB		R	1 50V Electrolytic
C3520	VCEA0A1HW105M+	AB		R	1 50V Electrolytic
C3521	VCEA0A1HW105M+	AB		R	1 50V Electrolytic
C3522	VCEA0A1HW105M+	AB		R	1 50V Electrolytic
C3523	VCKYCY1HB104KY	AA		R	0.1 50V Ceramic
C3524	VCEA0A1CW108M+	AD		R	1000 16V Electrolytic
C3525	VCKYCY1HF103ZY	AA		R	0.01 50V Ceramic
C3526	VCKYCY1HF103ZY	AA		R	0.01 50V Ceramic
RJ1	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide

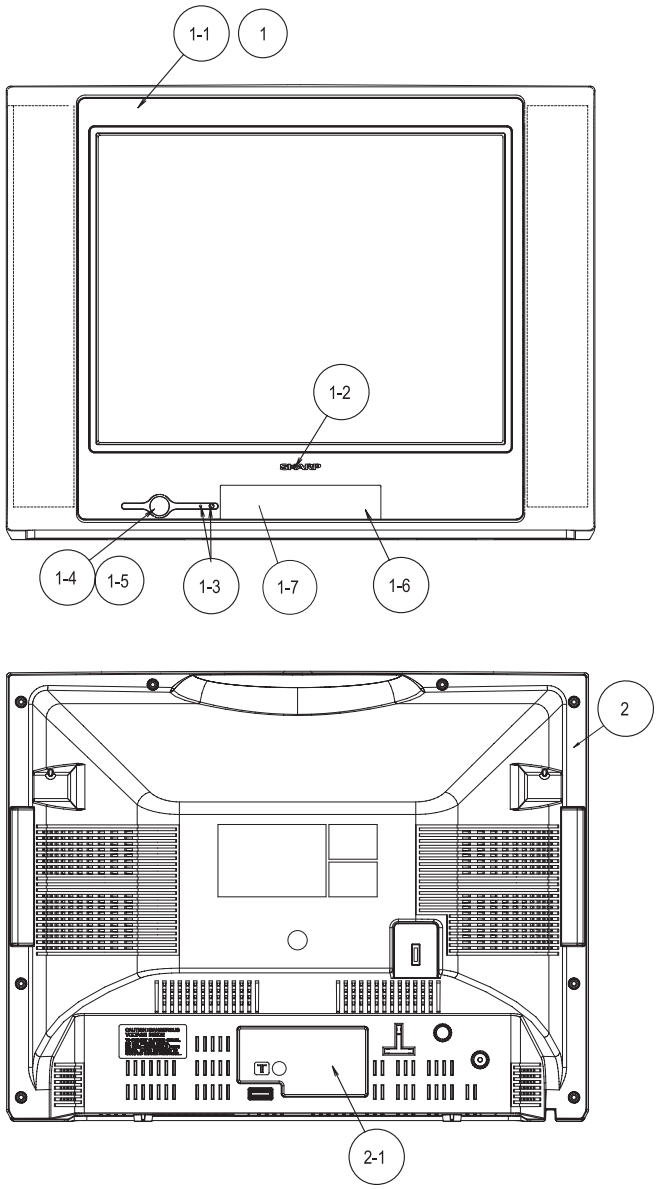
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[3] MAIN UNIT					
RJ6	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
RJ7	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
RJ9	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
RJ10	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
RJ14	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
RJ17	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
RJ39	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
RJ41	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
RJ42	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
RJ44	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
RJ45	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
RJ46	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
RJ47	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
RJ48	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R201	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R202	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R205	VRD-RA2BE680JY	AA		R	68 1/8W Carbon
R206	VRS-CY1JF122JY	AA		R	1.2k 1/16W Metal Oxide
R207	VRS-CY1JF221JY	AA		R	220 1/16W Metal Oxide
R208	VRS-CY1JF681JY	AA		R	680 1/16W Metal Oxide
R209	VRS-CY1JF392JY	AA		R	3.9k 1/16W Metal Oxide
R210	VRS-CY1JF392JY	AA		R	3.9k 1/16W Metal Oxide
R211	VRS-CY1JF682JY	AA		R	6.8k 1/16W Metal Oxide
R212	VRS-CY1JF222JY	AA		R	2.2k 1/16W Metal Oxide
R216	VRS-RG3LB333J+	AC		R	33k 3W Metal Oxide
R220	VRS-CY1JF221JY	AA		R	220 1/16W Metal Oxide
R301	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R302	VRN-RL3DBR10J+	AB		R	1 2.0W Metal Oxide
R303	VRS-CY1JF473JY	AA		R	47k 1/16W Metal Oxide
R304	VRD-RA2BE683JY	AA		R	68k 1/8W Carbon
R305	VRS-CY1JF274JY	AA		R	270k 1/16W Metal Oxide
R307	VRS-CY1JF182JY	AA		R	1.8k 1/16W Metal Oxide
R308	VRD-RA2BE822JY	AA		R	8.2k 1/8W Carbon
R314	VRD-RA2BE822JY	AA		R	8.2k 1/8W Carbon
R315	VRS-CY1JF182JY	AA		R	1.8k 1/16W Metal Oxide
R318	VRD-RA2BE680JY	AA		R	68 1/8W Carbon
R319	VRD-RA2BE680JY	AA		R	68 1/8W Carbon
R353	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R356	VRD-RA2BE102JY	AA		R	1k 1/8W Carbon
R362	VRS-CY1JF332JY	AA		R	3.3k 1/16W Metal Oxide
R366	VRS-CY1JF332JY	AA		R	3.3k 1/16W Metal Oxide
R372	VRS-CY1JF104JY	AA		R	100k 1/16W Metal Oxide
R373	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R374	VRS-CY1JF104JY	AA		R	100k 1/16W Metal Oxide
R376	VRD-RA2BE472JY	AA		R	4.7k 1/8W Carbon
R382	VRS-CY1JF332JY	AA		R	3.3k 1/16W Metal Oxide
R384	VRS-CY1JF332JY	AA		R	3.3k 1/16W Metal Oxide
R431	VRD-RA2BE101JY	AA		R	100 1/8W Carbon
R432	VRS-CY1JF750JY	AA		R	75 1/16W Metal Oxide
R433	VRS-CY1JF750JY	AA		R	75 1/16W Metal Oxide
R434	VRS-CY1JF750JY	AA		R	75 1/16W Metal Oxide
R435	VRD-RA2BE750JY	AA		R	75 1/8W Carbon
R458	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R459	VRD-RA2EE750JY	AA		R	75 1/4W Carbon
R461	VRS-CY1JF750JY	AA		R	75 1/16W Metal Oxide
R462	VRD-RA2BE101JY	AA		R	100 1/8W Carbon
R503	VRN-VV3DB2R2J	AB		R	2.2 2W Metal Oxide
R504	VRS-CY1JF562JY	AA		R	5.6k 1/16W Metal Oxide
R505	VRD-RM2HD220JY	AA		R	22 1/2W Carbon
R506	VRS-RG3AB331J+	AB		R	330 1W Metal Oxide
R507	VRD-RM2HD1R0JY	AA		R	1 1/2W Carbon
R513	VRD-RM2HD333JY	AB		R	33k 1/2W Carbon
R514	VRD-RM2HD682JY	AA		R	6.8k 1/2W Carbon
R520	VRS-CY1JF153JY	AA		R	15k 1/16W Metal Oxide
R523	VRD-RA2BE103JY	AA		R	10k 1/8W Carbon
R524	VRD-RA2BE103JY	AA		R	10k 1/8W Carbon
R602	VRD-RA2BE393JY	AA		R	39k 1/8W Carbon
R604	VRD-RA2BE183JY	AA		R	18k 1/8W Carbon
R605	VRD-RM2HD104JY	AA		R	100k 1/2W Carbon
R607	VRD-RM2HD5R6JY	AA		R	5.6 1/2W Carbon
⚠ R608	VRD-RM2HD102JY	AA		R	1k 1/2W Carbon
R609	VRD-RM2HD270JY	AA		R	27 1/2W Carbon
⚠ R611	VRN-RL3AB1R2J+	AB		R	1.2 1W Metal Film
⚠ R612	VRD-RM2HD270JY	AA		R	27 1/2W Carbon
R614	VRD-RA2BE154JY	AA		R	150k 1/8W Carbon
R615	VRD-RA2BE102JY	AA		R	1k 1/8W Carbon
R616	VRD-RA2BE102JY	AA		R	1k 1/8W Carbon
R617	VRS-CY1JF123JY	AA		R	12k 1/16W Metal Oxide
R618	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R621	VRN-RL2HC1R0J+	AB		R	1 1/2W Metal Film
R622	VRS-VV3DB682J	AA		R	6.8k 2W Metal Oxide
R625	VRD-RM2HD184JY	AA		R	180k 1/2W Carbon
R626	VRS-CY1JF472JY	AA		R	4.7k 1/16W Metal Oxide
R627	VRD-RA2BE153JY	AA		R	15k 1/8W Carbon
R631	VRS-KT3LB221J	AE		R	220 3W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[3] MAIN UNIT					
R638	VRD-RA2BE331JY	AA		R	330 1/8W Carbon
R639	VRD-RM2HD271JY	AA		R	270 1/2W Carbon
R642	VRN-RL3DB1R0J+	AB		R	1 2W Metal Film
R702	VRD-RM2HD154JY	AA		R	150k 1/2W Carbon
R704	VRD-RA2BE221JY	AA		R	220 1/8W Carbon
R710	VRD-RM2HD220JY	AA		R	22 1/2W Carbon
R711	VRD-RA2EE682JY	AA		R	6.8k 1/4W Carbon
R713	VRD-RA2BE222JY	AA		R	2.2k 1/8W Carbon
R720	VRD-RA2BE393GY	AB		R	39k 1/8W Carbon
R725	VRD-RM2HD821JY	AA		R	820 1/2W Carbon
R726	VRN-RL2HCR47J+	AB		R	0.47 1/2W Metal Film
⚠ R751	VRC-UA2HG825KY	AA		R	8.2M 1/2W Solid
⚠ R752	VRC-UA2HG825KY	AA		R	8.2M 1/2W Solid
R753	VRD-RM2HD334JY	AA		R	330k 1/2W Carbon
R754	VRN-RL3AB8R2J+	AB		R	8.2 1W Metal Film
R755	VRS-RG3DB151J+	AB		R	150 2W Metal Oxide
R756	VRD-RM2HD100JY	AA		R	10 1/2W Carbon
R758	VRD-RM2HD470JY	AA		R	47 1/2W Carbon
R759	VRD-RM2HD100JY	AA		R	10 1/2W Carbon
R760	VRD-RM2HD100JY	AA		R	10 1/2W Carbon
R801	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R803	VRD-RA2BE101JY	AA		R	100 1/8W Carbon
R804	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R805	VRD-RA2BE101JY	AA		R	100 1/8W Carbon
R806	VRS-CY1JF822JY	AA		R	8.2k 1/16W Metal Oxide
R807	VRS-CY1JF124JY	AA		R	120k 1/16W Metal Oxide
R808	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R809	VRD-RA2BE123JY	AA		R	12k 1/8W Carbon
R810	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R811	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R812	VRS-CY1JF822JY	AA		R	8.2k 1/16W Metal Oxide
R813	VRD-RM2HD151JY	AA		R	150 1/2W Carbon
R814	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R815	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R816	VRS-CY1JF471JY	AA		R	470 1/16W Metal Oxide
R817	VRS-CY1JF471JY	AA		R	470 1/16W Metal Oxide
R818	VRS-CY1JF220JY	AA		R	22 1/16W Metal Oxide
R819	VRD-RA2BE223JY	AA		R	22k 1/8W Carbon
R820	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R822	VRS-CY1JF181JY	AA		R	180 1/16W Metal Oxide
R823	VRS-CY1JF272JY	AA		R	2.7k 1/16W Metal Oxide
R824	VRS-CY1JF181JY	AA		R	180 1/16W Metal Oxide
R825	VRS-CY1JF473JY	AA		R	47k 1/16W Metal Oxide
R826	VRS-CY1JF181JY	AA		R	180 1/16W Metal Oxide
R827	VRS-CY1JF181JY	AA		R	180 1/16W Metal Oxide
R828	VRS-CY1JF392JY	AA		R	3.9k 1/16W Metal Oxide
R829	VRS-CY1JF473JY	AA		R	47k 1/16W Metal Oxide
R830	VRS-CY1JF472JY	AA		R	4.7k 1/16W Metal Oxide
R832	VRS-CY1JF182JY	AA		R	1.8k 1/16W Metal Oxide
R833	VRS-CY1JF182JY	AA		R	1.8k 1/16W Metal Oxide
R834	VRS-CY1JF182JY	AA		R	1.8k 1/16W Metal Oxide
R840	VRD-RA2EE102JY	AA		R	1k 1/4W Carbon
R858	VRS-SV2HC100J	AA		R	10 1/2W Metal Oxide
R1001	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R1002	VRS-CY1JF000JY	AA		R	0 1/16W Metal Oxide
R1003	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R1004	VRD-RA2BE101JY	AA		R	100 1/8W Carbon
R1006	VRD-RA2BE332JY	AA		R	3.3k 1/8W Carbon
R1007	VRS-CY1JF332JY	AA		R	3.3k 1/16W Metal Oxide
R1008	VRD-RA2BE470JY	AA		R	47 1/8W Carbon
R1009	VRD-RA2BE101JY	AA		R	100 1/8W Carbon
R1010	VRS-CY1JF104JY	AA		R	100k 1/16W Metal Oxide
R1011	VRS-CY1JF183JY	AA		R	18k 1/16W Metal Oxide
R1012	VRD-RA2BE183JY	AA		R	18k 1/8W Carbon
R1013	VRD-RA2BE101JY	AA		R	100 1/8W Carbon
R1014	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R1015	VRD-RA2BE101JY	AA		R	100 1/8W Carbon
R1016	VRD-RA2BE332JY	AA		R	3.3k 1/8W Carbon
R1017	VRD-RA2BE101JY	AA		R	100 1/8W Carbon
R1018	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R1019	VRD-RA2BE101JY	AA		R	100 1/8W Carbon
R1020	VRS-CY1JF183JY	AA		R	18k 1/16W Metal Oxide
R1021	VRS-CY1JF822JY	AA		R	8.2k 1/16W Metal Oxide
R1022	VRS-CY1JF183JY	AA		R	18k 1/16W Metal Oxide
R1024	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R1025	VRD-RA2BE103JY	AA		R	10k 1/8W Carbon
R1026	VRS-CY1JF183JY	AA		R	18k 1/16W Metal Oxide
R1027	VRS-CY1JF104JY	AA		R	100k 1/16W Metal Oxide
R1028	VRD-RA2BE181JY	AA		R	180 1/8W Carbon
R1029	VRD-RA2BE101JY	AA		R	100 1/8W Carbon
R1030	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R1031	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R1032	VRS-CY1JF332JY	AA		R	3.3k 1/16W Metal Oxide
R1034	VRS-CY1JF470JY	AA		R	47 1/16W Metal Oxide
R1038	VRS-CY1JF562JY	AA		R	5.6k 1/16W Metal Oxide

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[3] MAIN UNIT					
R1039	VRS-CY1JF102JY	AA		R	1k 1/16W Metal Oxide
R1056	VRS-CY1JF332JY	AA		R	3.3k 1/16W Metal Oxide
R1074	VRS-CY1JF332JY	AA		R	3.3k 1/16W Metal Oxide
R1078	VRS-CY1JF332JY	AA		R	3.3k 1/16W Metal Oxide
R1079	VRS-CY1JF332JY	AA		R	3.3k 1/16W Metal Oxide
R1087	VRS-CY1JF181JY	AA		R	180 1/16W Metal Oxide
R1863	VRS-CY1JF103JY	AA		R	10k 1/16W Metal Oxide
R3501	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R3502	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R3503	VRD-RA2BE101JY	AA		R	100 1/8W Carbon
R3504	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R3506	VRD-RA2BE101JY	AA		R	100 1/8W Carbon
R3507	VRD-RA2BE101JY	AA		R	100 1/8W Carbon
R3508	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
R3509	VRS-CY1JF101JY	AA		R	100 1/16W Metal Oxide
⚠ S701	QSW-P0612CEZZ	AG		R	Switch,POWER
S1001	QSW-K0202PEZZ+	AC		R	Switch,CH UP
S1002	QSW-K0202PEZZ+	AC		R	Switch,CH DOWN
S1003	QSW-K0202PEZZ+	AC		R	Switch,VOL UP
S1004	QSW-K0202PEZZ+	AC		R	Switch,VOL DOWN
S1005	QSW-K0202PEZZ+	AC		R	Switch,MENU
⚠ F701	QFS-C3225CEZZ	AC		R	Fuse , 3.15A 250V
FB601	RBLN-0091GEZZY	AB		R	Balun
FH701	QFSHD1013CEZZ+	AC		R	Fuse Holder
FH702	QFSHD1014CEZZ+	AC		R	Fuse Holder
J401	QJAKGA015WJZZ	AH		R	Jack , 5 Pin
J402	QJAKE0211CE04	AD		R	AV-2 In Jack
J403	QJAKE0211CE09	AD		R	AV-2 In Jack
J404	QJAKE0210CE02	AC		R	Jack
J405	QTANJ0644CEZZ	AM		R	Jack
P302	QPLGN0461CEZZA	AB		R	Plug , 4Pin(HP)
P304	QPLGN0761CEZZA	AC		R	Plug
P601	QPLGN0660CEZZ	AC		R	Plug , 6Pin(K1-6)
P602	QPLGN0561CEZZA	AB		R	Plug , 5Pin(H)
P701	QPLGN0260CEZZ	AC		R	Plug , 2Pin(M)
P702	QPLGN0269GEZZ	AB		R	Plug
P1001	QPLGN0578GEZZ	AB		R	Plug , 5Pin(K)
P1002	QPLGN0561CEZZ	AB		R	Plug , 5Pin(BC)
RMC1001	RRMCUA024WJZZ	AG		R	Remote Receiver
RDA301	PRDARA119WJFW	AF		R	HEAT SINK , IC301
RDA392	PRDARA181WJFW	AC		R	HEAT SINK , D392
RDA501	PRDARA120WJFW	AD		R	HEAT SINK , IC501
RDA601	PRDARA181WJFW	AC		R	HEAT SINK , IC601
RDA602	PRDAR0337PEFW	AD		R	HEAT SINK , Q602
RDA701	PRDARA119WJFW	AF		R	HEAT SINK , IC701
NR701	RH-HXA013WJZZ+	AD		R	Thermistor
[4] CRT UNIT					
IC851	VHiTDA6107J-1	AM		R	IC , TDA6107J
D851	RH-DX0220CEZZY	AB		R	Diode , DX0220CE
D852	RH-DX0220CEZZY	AB		R	Diode , DX0220CE
D853	RH-DX0220CEZZY	AB		R	Diode , DX0220CE
D854	RH-DX0220CEZZY	AB		R	Diode , DX0220CE
D855	RH-DX0220CEZZY	AB		R	Diode , DX0220CE
D856	RH-DX0220CEZZY	AB		R	Diode , DX0220CE
C851	VCFYSB2EB823J	AD		R	0.082 250V Mylar
C852	VCEA0A2EW106M+	AD		R	10 250V Electrolytic
C853	VCKYPA2HB221K+	AB		R	220p 500V Ceramic
C854	RC-KZ018JCEZZ	AC		R	0.1 250V Porcelain
C855	VCKYPA2HB221K+	AB		R	220p 500V Ceramic
C857	VCFYSB2EB823J	AD		R	0.082 250V Mylar
C1517	VCKYPA2HB102K+	AA		R	1000p 500V Ceramic
R851	VRD-RM2HD101JY	AA		R	100 1/8W Carbon
R852	VRD-RM2HD101JY	AA		R	100 1/8W Carbon
R853	VRD-RM2HD101JY	AA		R	100 1/8W Carbon
R854	VRC-MA2HG152KY	AA		R	1.5k 1/2W Solid
R855	VRC-MA2HG152KY	AA		R	1.5k 1/2W Solid
R856	VRC-MA2HG152KY	AA		R	1.5k 1/2W Solid
R858	VRS-SV2HC100J	AA		R	10 1/2W Metal Oxide
⚠ R861	VRD-RM2HD224JY	AA		R	220k 1/2W Carbon
⚠ R863	VRD-RA2BE102JY	AA		R	1k 1/8W Carbon
R864	VRD-RA2BE102JY	AA		R	1k 1/8W Carbon
R865	VRD-RA2BE102JY	AA		R	1k 1/8W Carbon
RDA851	PRDAR0248PEFW	AF		R	HEAT SINK , IC851
P855	QPLGN0761CEZZ	AD		R	Socket , 7 Pin
P860	QPLGN0878GEZZ	AC		R	Socket , 8 Pin
SC851	QSOCV0016PEZZ	AF		R	Socket , 12 Pin
[5] HEADPHONE UNIT					
R370	VRS-CY1JF471JY	AA		R	470 1/16W Metal Oxide
R371	VRS-CY1JF471JY	AA		R	470 1/16W Metal Oxide
J351	QJAKJ0101SEZZ	AE		R	Jack , 7 Pin
P351	QPLGNA109WJZZ	AB		R	Plug , 4 Pin
P352	QPLGNA108WJZZ	AB		R	Plug , 3 Pin

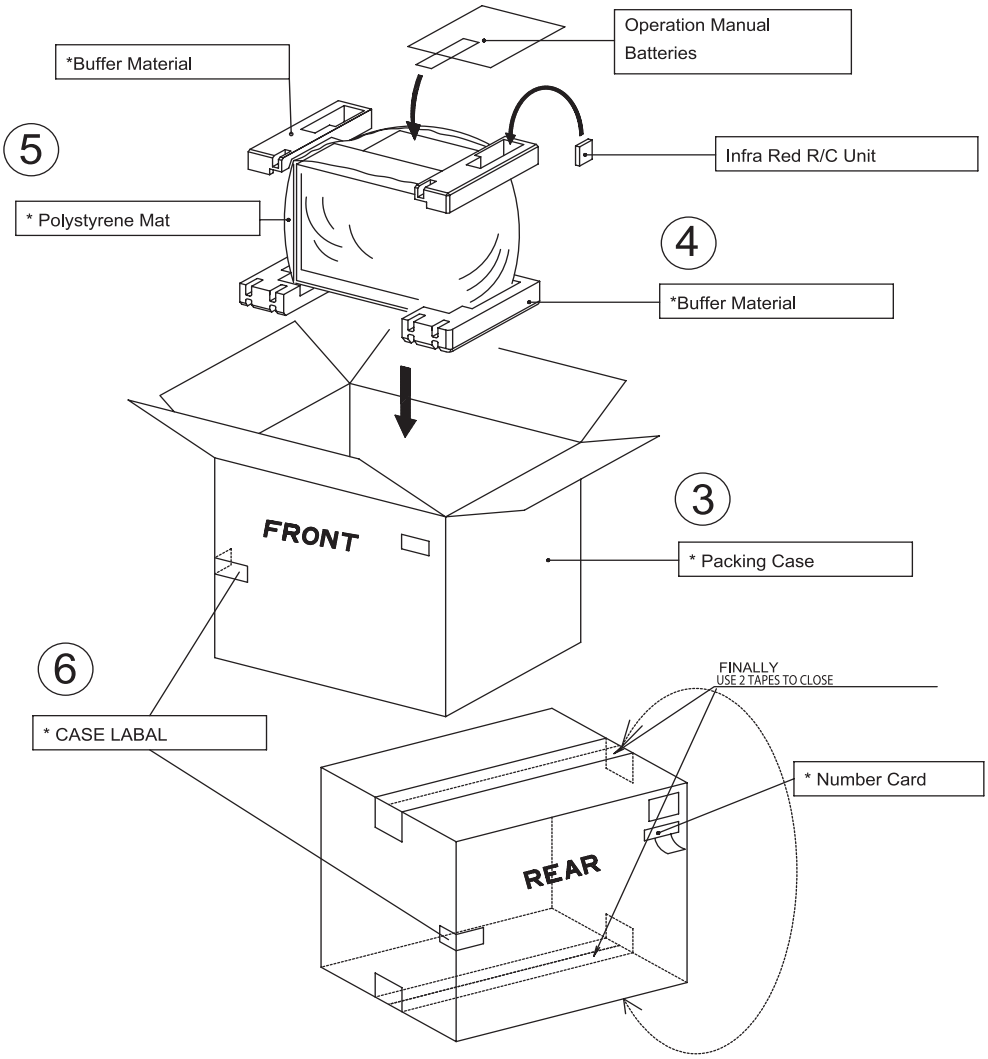
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[6] MISCELLANEOUS PARTS					
⚠	QACCZA048WJPZ	AG		R	AC CORD
SP301	VSP1206PB81WA	AP		R	SPEAKER 16 OHM
	QCNW-B266WJZZ	AF		R	H/P WIRE
	QCNW-D985WJZZ	AE		R	H-WIRE
	QCNW-D986WJZZ	AE		R	K-WIRE
	QCNW-D818WJPZ	AF		R	SP WIRE
[7] SUPPLIED ACCESSORIES					
	RRMCGA296WJSB	AN		R	Infrared Remote Control Unit
	TiNS-B997WJZZ	AD		R	Operation Manual
	TiNS-C045WJZZ	AD		R	Operation Manual
	TCAUAA005WJZZ	AA		R	Caution Label

[8] CABINET PARTS



NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[8] CABINET PARTS					
1	CCABAB053WEV0	BH		R	Front Cabinet Ass'y
1-1	Not Available	–		–	Front Cabinet
1-2	HBDGB3155CESA	AF		R	SHARP Badge
1-3	GCOVAB341WJSA	AC		R	LED , R/C Cover
1-4	CBTN-A484WEV0	AG		R	Power Button Ass'y
1-5	MSPRCA067WJFW	AB		R	Power Button Spring
1-6	GDORFA166WJSA	AK		R	Door
1-7	HiNDPB380WJZZ	AE		R	Indication Plate
2	CCABBA624WEV0	BC		R	Rear Cabinet Ass"y
2-1	HiNDPB418WJZZ	AF		R	Indication Plate(Rear)

[9] PACKING PARTS



MARK *: Not replacement items

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[9] PACKING PARTS					
3	SPAKCC256WJZZ	–		–	Packing Case
4	SPAKXA841WJZZ	–		–	Packing Foam
5	SSAKH0016PEZZ	–		–	Wrapping Sheet
6	TLABZB018WJZZ	–		–	Case Label

■INDEX

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
【 C 】				
CBTN-A484WEV0	8-4-Jan	AG		R
CCABAB053WEV0	8-1	BH		R
CCABBA624WEV0	8-2	BC		R
【 D 】				
DUNTKC519WEB9	2-	-		-
DUNTKD138WEA0	2-	-		-
DUNTKD144WEA0	2-	-		-
【 G 】				
GCOVAB341WJSA	8-3-Jan	AC		R
GDORFA166WJSA	8-6-Jan	AK		R
【 H 】				
HBDGB3155CESA	8-2-Jan	AF		R
HiNDPB380WJZZ	8-7-Jan	AE		R
HiNDPB418WJZZ	8-1-Feb	AF		R
【 M 】				
MSPRCA067WJFW	8-5-Jan	AB		R
【 N 】				
Not Available	8-1-Jan	-		-
【 P 】				
PMAGF3046CEZZ	1-	AF		R
PRDAR0248PEFW	4-RDA851	AF		R
PRDAR0337PEFW	3-RDA602	AD		R
PRDARA119WJFW	3-RDA301	AF		R
〃	3-RDA701	AF		R
PRDARA120WJFW	3-RDA501	AD		R
PRDARA181WJFW	3-RDA392	AC		R
〃	3-RDA601	AC		R
【 Q 】				
QACCZA048WJPZ	6-	AG		R
QCNW-B266WJZZ	6-	AF		R
QCNW-D818WJPZ	6-	AF		R
QCNW-D985WJZZ	6-	AE		R
QCNW-D986WJZZ	6-	AE		R
QEARCA012WJZZ	1-	AG		R
QFS-C3225CEZZ	3-F701	AC		R
QFSHD1013CEZZ+	3-FH701	AC		R
QFSHD1014CEZZ+	3-FH702	AC		R
QJAKE0210CE02	3-J404	AC		R
QJAKE0211CE04	3-J402	AD		R
QJAKE0211CE09	3-J403	AD		R
QJAKGA015WJZZ	3-J401	AH		R
QJAKJ0101SEZZ	5-J351	AE		R
QPLGN0260CEZZ	3-P701	AC		R
QPLGN0269GEZZ	3-P702	AB		R
QPLGN0461CEZZA	3-P302	AB		R
QPLGN0561CEZZ	3-P1002	AB		R
QPLGN0561CEZZA	3-P602	AB		R
QPLGN0578GEZZ	3-P1001	AB		R
QPLGN0660CEZZ	3-P601	AC		R
QPLGN0761CEZZ	4-P855	AD		R
QPLGN0761CEZZA	3-P304	AC		R
QPLGN0878GEZZ	4-P860	AC		R
QPLGNA108WJZZ	5-P352	AB		R
QPLGNA109WJZZ	5-P351	AB		R
QSOCV0016PEZZ	4-SC851	AF		R
QSW-K0202PEZZ+	3-S1001	AC		R
〃	3-S1002	AC		R
〃	3-S1003	AC		R
〃	3-S1004	AC		R
〃	3-S1005	AC		R
QSW-P0612CEZZ	3-S701	AG		R
QTANJ0644CEZZ	3-J405	AM		R
【 R 】				
RBLN-0091GEZZY	3-FB601	AB		R
RC-EZA097WJZZ	3-C705	AM		R
RC-EZA332WJZZ+	3-C513	AD		R
RC-EZA522WJZZ	3-C754	AD		R
RC-EZA523WJZZ	3-C753	AD		R
RC-FZ031SCEZZ	3-C701	AD		R
RCiLFA187WJZZ	3-L701	AD		R
RCiLGA095WJZZ	1-	AM		R
RCiLP0223CEZZ	3-L602	AE		R
RC-KZ0029CEZZ+	3-C702	AC		R
〃	3-C703	AC		R
〃	3-C704	AC		R
RC-KZ0102GEZZ	3-C713	AE		R
RC-KZ018JCEZZ	4-C854	AC		R
RC-KZ1018CEZZ+	3-C784	AC		R

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
RCRSAA019WJZZ	3-X801	AF		R
RFiLC0037PEZZ	3-SF201	AP		R
RH-DX0066GEZZY	3-D705	AC		R
〃	3-D706	AC		R
〃	3-D1081	AC		R
RH-DX0131CEZZY	3-D510	AC		R
〃	3-D606	AC		R
RH-DX0220CEZZY	4-D851	AB		R
〃	4-D852	AB		R
〃	4-D853	AB		R
〃	4-D854	AB		R
〃	4-D855	AB		R
〃	4-D856	AB		R
RH-DX0247CEZZ	3-D752	AE		R
RH-DX0441CEZZY	3-D505	AC		R
RH-DX0445CEZZ	3-D392	AL		R
RH-DX0476CEZZ	3-D701	AG		R
RH-DXA006WJZZ	3-D751	AD		R
RH-EX0253TAZZY	3-D1801	AC		R
〃	3-D1802	AC		R
〃	3-D1803	AC		R
RH-EX0263TAZZY	3-D811	AC		R
〃	3-D812	AC		R
〃	3-D813	AC		R
RH-EX0339GEZZY	3-D716	AB		R
RH-EX0606GEZZY	3-D804	AB		R
RH-EX0612GEZZY	3-D819	AB		R
〃	3-D3501	AB		R
〃	3-D3502	AB		R
RH-EX0615GEZZY	3-D817	AA		R
RH-EX0617GEZZY	3-D608	AA		R
RH-EX0627GEZZY	3-D818	AA		R
RH-EX0630GEZZY	3-D802	AA		R
RH-EX0640GEZZY	3-D1002	AA		R
RH-EX0667GEZZY	3-D603	AA		R
RH-EX0676GEZZY	3-D201	AA		R
RH-EX0724GEZZY	3-D503	AB		R
RH-EX1393CEZZY	3-D806	AB		R
〃	3-D1006	AB		R
〃	3-D1007	AB		R
RH-FXA003WJZZ	3-iC702	AD		R
RH-HXA013WJZZ+	3-NR701	AD		R
RH-iXB525WJZZ	3-iC801	BA		R
RH-PX0013PEZZ	3-D1001	AC		R
RH-VX0073CEZZ	3-VA701	AD		R
RMPTP0085CEZZ	3-PR701	AL		R
RRMCGA296WJSB	7-	AN		R
RRMCUA024WJZZ	3-RMC1001	AG		R
RTRNFA120WJZZ	3-T602	AW		R
RTRNWA205WJZZ	3-T702	AA		R
RTRNZA058WJZZ	3-T603	AD		R
RTUNQA024WJZZ	3-TU201	AX		R
【 S 】				
SPAKCC256WJZZ	9-3	-		-
SPAKXA841WJZZ	9-4	-		-
SSAKH0016PEZZ	9-5	-		-
【 T 】				
TCAUAA005WJZZ	7-	AA		R
TiNS-B997WJZZ	7-	AD		R
TiNS-C045WJZZ	7-	AD		R
TLABZB018WJZZ	9-6	-		-
【 V 】				
VB51QDX993X1E	1-	CG		R
VCCCCY1HH121JY	3-C815	AA		R
VCCCCY1HH390JY	3-C214	AA		R
〃	3-C215	AA		R
VCEA0A0JW108M+	3-C202	AC		R
〃	3-C1853	AC		R
VCEA0A0JW477M+	3-C1845	AC		R
VCEA0A1AW107M+	3-C802	AB		R
〃	3-C1001	AB		R
VCEA0A1CW106M+	3-C319	AB		R
〃	3-C320	AB		R
〃	3-C383	AB		R
〃	3-C387	AB		R
〃	3-C827	AB		R
〃	3-C1003	AB		R
VCEA0A1CW108M+	3-C3524	AD		R
VCEA0A1CW476M+	3-C758	AB		R

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
〃	3-C809	AB		R
〃	3-C818	AB		R
〃	3-C821	AB		R
〃	3-C1854	AB		R
VCEA0A1CW477M+	3-C451	AC		R
〃	3-C643	AC		R
〃	3-C848	AC		R
〃	3-C1840	AC		R
〃	3-C1841	AC		R
VCEA0A1EW227M+	3-C610	AB		R
VCEA0A1EW228M+	3-C393	AE		R
〃	3-C756	AE		R
VCEA0A1EW477M+	3-C301	AD		R
VCEA0A1HW104M+	3-C709	AB		R
VCEA0A1HW105M+	3-C201	AB		R
〃	3-C820	AB		R
〃	3-C3517	AB		R
〃	3-C3519	AB		R
〃	3-C3520	AB		R
〃	3-C3521	AB		R
〃	3-C3522	AB		R
VCEA0A1HW106M+	3-C206	AB		R
〃	3-C843	AB		R
〃	3-C1848	AB		R
VCEA0A1HW107M+	3-C505	AB		R
VCEA0A1HW224M+	3-C310	AB		R
〃	3-C311	AB		R
VCEA0A1HW225M+	3-C1006	AB		R
VCEA0A1HW474M+	3-C825	AB		R
〃	3-C828	AB		R
VCEA0A1HW475M+	3-C304	AB		R
〃	3-C322	AB		R
〃	3-C602	AB		R
〃	3-C3507	AB		R
〃	3-C3508	AB		R
VCEA0A1VW226M+	3-C706	AB		R
VCEA0A1VW477M+	3-C511	AB		R
VCEA0A2EW106M+	4-C852	AD		R
VCEA0A2EW336M+	3-C604	AD		R
VCEA9M1CW476M+	3-C806	AB		R
〃	3-C831	AB		R
VCEA9M1HW104M+	3-C833	AC		R
VCEA9M1HW474M+	3-C816	AB		R
VCEACA1HC335J+	3-C515	AC		R
VCEACA1HC474M+	3-C804	AC		R
VCFPVC2DB334J	3-C611	AD		R
VCFPVC3ZA902H	3-C607	AD		R
VCFYAA2AA224J+	3-C508	AD		R
VCFYFA1HA104J+	3-C832	AA		R
VCFYFA1HA105J+	3-C744	AE		R
VCFYFA1HA224J+	3-C817	AB		R
〃	3-C837	AA		R
VCFYSA1JB273J+	3-C514	AC		R
VCFYSB2EB823J	4-C851	AD		R
〃	4-C857	AD		R
VCKYCY1AB105KY	3-C3515	AA		R
〃	3-C3516	AA		R
VCKYCY1CB273KY	3-C1847	AB		R
VCKYCY1CF104ZY	3-C834	AA		R
〃	3-C842	AA		R
VCKYCY1CF105ZY	3-C811	AA		R
〃	3-C824	AA		R
〃	3-C840	AA		R
VCKYCY1CF224ZY	3-C3505	AA		R
〃	3-C3506	AA		R
VCKYCY1CF334ZY	3-C3518	AB		R
VCKYCY1CF474ZY	3-C1004	AB		R
VCKYCY1EF104ZY	3-C1016	AA		R
VCKYCY1HB103KY	3-C518	AA		R
〃	3-C803	AA		R
〃	3-C807	AA		R
〃	3-C819	AA		R
〃	3-C830	AA		R
〃	3-C839	AA		R
〃	3-C1842	AA		R
〃	3-C1844	AA		R
〃	3-C1849	AA		R
〃	3-C1851	AA		R
〃	3-C1852	AA		R
VCKYCY1HB104KY	3-C812	AA		R
〃	3-C813	AA		R
〃	3-C1843	AA		R

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
〃	3-C1846	AA		R
〃	3-C3523	AA		R
VCKYCY1HB153KY	3-C805	AA		R
VCKYCY1HB182KY	3-C1857	AA		R
VCKYCY1HB222KY	3-C836	AA		R
〃	3-C3511	AA		R
〃	3-C3512	AA		R
VCKYCY1HB332KY	3-C841	AA		R
VCKYCY1HB471KY	3-C847	AA		R
VCKYCY1HB681KY	3-C1002	AA		R
VCKYCY1HB682KY	3-C308	AA		R
〃	3-C313	AB		R
VCKYCY1HF103ZY	3-C203	AA		R
〃	3-C207	AA		R
〃	3-C208	AA		R
〃	3-C209	AA		R
〃	3-C210	AA		R
〃	3-C211	AA		R
〃	3-C810	AA		R
〃	3-C823	AA		R
〃	3-C835	AA		R
〃	3-C3525	AA		R
〃	3-C3526	AA		R
VCKYCY1HF153ZY	3-C814	AA		R
VCKYCY1HF223ZY	3-C3509	AB		R
〃	3-C3510	AB		R
VCKYCY1HF224ZY	3-C3501	AA		R
〃	3-C3502	AA		R
〃	3-C3503	AA		R
〃	3-C3504	AA		R
〃	3-C3513	AA		R
〃	3-C3514	AA		R
VCKYPA1HB102K+	3-C391	AA		R
VCKYPA1HB332K+	3-C711	AB		R
VCKYPA1HB561K+	3-C612	AA		R
VCKYPA1HF103Z+	3-C710	AA		R
VCKYPA2HB101K+	3-C650	AB		R
VCKYPA2HB102K+	3-C512	AB		R
〃	3-C606	AB		R
〃	3-C750	AB		R
〃	4-C1517	AA		R
VCKYPA2HB221K+	4-C853	AB		R
〃	4-C855	AB		R
VCKYPH3DB561K	3-C743	AC		R
VCQYTA1HM104J+	3-C1081	AB		R
VCQYTA1HM563J+	3-C601	AB		R
VCQYTA2AA103K+	3-C608	AC		R
VHD1SS119//-1Y	3-D203	AA		R
〃	3-D301	AA		R
〃	3-D605	AA		R
〃	3-D607	AA		R
〃	3-D714	AA		R
〃	3-D801	AA		R
〃	3-D803	AA		R
〃	3-D805	AA		R
〃	3-D1005	AA		R
VHD1SS244//-1Y	3-D602	AB		R
VHD1SS356//-1Y	3-D202	AC		R
VHiAN17820B-1	3-iC301	AL		R
VHiBR24L08F-1Y	3-iC1003	AE		R
VHiKiA78D33-1	3-iC751	AF		R
VHiNJW1142A-1Y	3-iC3501	AM		R
VHiPQ09RDA1-1	3-iC601	AF		R
VHiSE125N++-F	3-iC703	AG		R
VHiSTRW6553-1	3-iC701	AN		R
VHiSTV9302A-1	3-iC501	AH		R
VHiTDA6107J-1	4-iC851	AM		R
VP-CF100K0000Y	3-L802	AB		R
〃	3-L804	AB		R
VP-CF220K0000Y	3-L803	AB		R
VP-CF330K0000Y	3-L805	AB		R
VP-DF100K0000Y	3-L801	AB		R
〃	3-L806	AB		R
〃	3-L807	AB		R
〃	3-L3501	AB		R
VP-DF270K0000Y	3-L203	AB		R
VP-XF1R2K0000Y	3-L204	AB		R
VRC-MA2HG152KY	4-R854	AA		R
〃	4-R855	AA		R
〃	4-R856	AA		R
VRC-UA2HG825KY	3-R751	AA		R
〃	3-R752	AA		R

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
VRD-RA2BE101JY	3-R431	AA		R
〃	3-R462	AA		R
〃	3-R803	AA		R
〃	3-R805	AA		R
〃	3-R1004	AA		R
〃	3-R1009	AA		R
〃	3-R1013	AA		R
〃	3-R1015	AA		R
〃	3-R1017	AA		R
〃	3-R1019	AA		R
〃	3-R1029	AA		R
〃	3-R3503	AA		R
〃	3-R3506	AA		R
〃	3-R3507	AA		R
VRD-RA2BE102JY	3-R356	AA		R
〃	3-R615	AA		R
〃	3-R616	AA		R
〃	4-R863	AA		R
〃	4-R864	AA		R
〃	4-R865	AA		R
VRD-RA2BE103JY	3-R523	AA		R
〃	3-R524	AA		R
〃	3-R1025	AA		R
VRD-RA2BE123JY	3-R809	AA		R
VRD-RA2BE153JY	3-R627	AA		R
VRD-RA2BE154JY	3-R614	AA		R
VRD-RA2BE181JY	3-R1028	AA		R
VRD-RA2BE183JY	3-R604	AA		R
〃	3-R1012	AA		R
VRD-RA2BE221JY	3-R704	AA		R
VRD-RA2BE222JY	3-R713	AA		R
VRD-RA2BE223JY	3-R819	AA		R
VRD-RA2BE331JY	3-R638	AA		R
VRD-RA2BE332JY	3-R1006	AA		R
〃	3-R1016	AA		R
VRD-RA2BE393GY	3-R720	AB		R
VRD-RA2BE393JY	3-R602	AA		R
VRD-RA2BE470JY	3-R1008	AA		R
VRD-RA2BE472JY	3-R376	AA		R
VRD-RA2BE680JY	3-R205	AA		R
〃	3-R318	AA		R
〃	3-R319	AA		R
VRD-RA2BE683JY	3-R304	AA		R
VRD-RA2BE750JY	3-R435	AA		R
VRD-RA2BE822JY	3-R308	AA		R
〃	3-R314	AA		R
VRD-RA2EE102JY	3-R840	AA		R
VRD-RA2EE682JY	3-R711	AA		R
VRD-RA2EE750JY	3-R459	AA		R
VRD-RM2HD100JY	3-R756	AA		R
〃	3-R759	AA		R
〃	3-R760	AA		R
VRD-RM2HD101JY	4-R851	AA		R
〃	4-R852	AA		R
〃	4-R853	AA		R
VRD-RM2HD102JY	3-R608	AA		R
VRD-RM2HD104JY	3-R605	AA		R
VRD-RM2HD151JY	3-R813	AA		R
VRD-RM2HD154JY	3-R702	AA		R
VRD-RM2HD184JY	3-R625	AA		R
VRD-RM2HD1R0JY	3-R507	AA		R
VRD-RM2HD220JY	3-R505	AA		R
〃	3-R710	AA		R
VRD-RM2HD224JY	4-R861	AA		R
VRD-RM2HD270JY	3-R609	AA		R
〃	3-R612	AA		R
VRD-RM2HD271JY	3-R639	AA		R
VRD-RM2HD333JY	3-R513	AB		R
VRD-RM2HD334JY	3-R753	AA		R
VRD-RM2HD470JY	3-R758	AA		R
VRD-RM2HD5R6JY	3-R607	AA		R
VRD-RM2HD682JY	3-R514	AA		R
VRD-RM2HD821JY	3-R725	AA		R
VRN-RL2HC1R0J+	3-R621	AB		R
VRN-RL2HCR47J+	3-R726	AB		R
VRN-RL3AB1R2J+	3-R611	AB		R
VRN-RL3AB8R2J+	3-R754	AB		R
VRN-RL3DB1R0J+	3-R642	AB		R
VRN-RL3DBR10J+	3-R302	AB		R
VRN-VV3DB2R2J	3-R503	AB		R
VRS-CY1JF000JY	3-RJ1	AA		R
〃	3-RJ6	AA		R
〃	3-RJ7	AA		R
〃	3-RJ9	AA		R
〃	3-RJ10	AA		R
〃	3-RJ14	AA		R
〃	3-RJ17	AA		R
〃	3-RJ39	AA		R
〃	3-RJ41	AA		R
〃	3-RJ42	AA		R
〃	3-RJ44	AA		R
〃	3-RJ45	AA		R
〃	3-RJ46	AA		R
〃	3-RJ47	AA		R
〃	3-RJ48	AA		R
〃	3-R1002	AA		R
VRS-CY1JF101JY	3-R201	AA		R
〃	3-R202	AA		R
〃	3-R804	AA		R
〃	3-R808	AA		R
〃	3-R814	AA		R
〃	3-R815	AA		R
〃	3-R820	AA		R
〃	3-R1001	AA		R
〃	3-R1014	AA		R
〃	3-R1024	AA		R
〃	3-R1031	AA		R
〃	3-R3501	AA		R
〃	3-R3502	AA		R
〃	3-R3504	AA		R
〃	3-R3508	AA		R
〃	3-R3509	AA		R
VRS-CY1JF102JY	3-R301	AA		R
〃	3-R353	AA		R
〃	3-R801	AA		R
〃	3-R1003	AA		R
〃	3-R1039	AA		R
VRS-CY1JF103JY	3-R373	AA		R
〃	3-R458	AA		R
〃	3-R618	AA		R
〃	3-R810	AA		R
〃	3-R811	AA		R
〃	3-R1018	AA		R
〃	3-R1030	AA		R
〃	3-R1863	AA		R
VRS-CY1JF104JY	3-R372	AA		R
〃	3-R374	AA		R
〃	3-R1010	AA		R
〃	3-R1027	AA		R
VRS-CY1JF122JY	3-R206	AA		R
VRS-CY1JF123JY	3-R617	AA		R
VRS-CY1JF124JY	3-R807	AA		R
VRS-CY1JF153JY	3-R520	AA		R
VRS-CY1JF181JY	3-R822	AA		R
〃	3-R824	AA		R
〃	3-R826	AA		R
〃	3-R827	AA		R
〃	3-R1087	AA		R
VRS-CY1JF182JY	3-R307	AA		R
〃	3-R315	AA		R
〃	3-R832	AA		R
〃	3-R833	AA		R
〃	3-R834	AA		R
VRS-CY1JF183JY	3-R1011	AA		R
〃	3-R1020	AA		R
〃	3-R1022	AA		R
〃	3-R1026	AA		R
VRS-CY1JF220JY	3-R818	AA		R
VRS-CY1JF221JY	3-R207	AA		R
〃	3-R220	AA		R
VRS-CY1JF222JY	3-R212	AA		R
VRS-CY1JF272JY	3-R823	AA		R
VRS-CY1JF274JY	3-R305	AA		R
VRS-CY1JF332JY	3-R362	AA		R
〃	3-R366	AA		R
〃	3-R382	AA		R
〃	3-R384	AA		R
〃	3-R1007	AA		R
〃	3-R1032	AA		R
〃	3-R1056	AA		R
〃	3-R1074	AA		R
〃	3-R1078	AA		R
〃	3-R1079	AA		R
VRS-CY1JF392JY	3-R209	AA		R

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
〃	3-R210	AA		R
〃	3-R828	AA		R
VRS-CY1JF470JY	3-R1034	AA		R
VRS-CY1JF471JY	3-R816	AA		R
〃	3-R817	AA		R
〃	5-R370	AA		R
〃	5-R371	AA		R
VRS-CY1JF472JY	3-R626	AA		R
〃	3-R830	AA		R
VRS-CY1JF473JY	3-R303	AA		R
〃	3-R825	AA		R
〃	3-R829	AA		R
VRS-CY1JF562JY	3-R504	AA		R
〃	3-R1038	AA		R
VRS-CY1JF681JY	3-R208	AA		R
VRS-CY1JF682JY	3-R211	AA		R
VRS-CY1JF750JY	3-R432	AA		R
〃	3-R433	AA		R
〃	3-R434	AA		R
〃	3-R461	AA		R
VRS-CY1JF822JY	3-R806	AA		R
〃	3-R812	AA		R
〃	3-R1021	AA		R
VRS-KT3LB221J	3-R631	AE		R
VRS-RG3AB331J+	3-R506	AB		R
VRS-RG3DB151J+	3-R755	AB		R
VRS-RG3LB333J+	3-R216	AC		R
VRS-SV2HC100J	3-R858	AA		R
〃	4-R858	AA		R
VRS-VV3DB682J	3-R622	AA		R
VS2PB709AR/-1Y	3-Q802	AB		R
〃	3-Q805	AB		R
VS2PD601AR/-1Y	3-Q202	AB		R
〃	3-Q801	AB		R
〃	3-Q803	AB		R
〃	3-Q1001	AB		R
〃	3-Q1002	AB		R
〃	3-Q1070	AB		R
VS2SC2235Y/1E+	3-Q601	AE		R
VS2SC2735//1EY	3-Q201	AC		R
VS2SC3198-G-1+	3-Q603	AA		R
VS2SD468-C/-1+	3-Q751	AD		R
〃	3-Q752	AD		R
〃	3-Q753	AD		R
〃	3-Q754	AD		R
VSiMX1C/C//-1Y	3-iC305	AC		R
〃	3-iC1007	AC		R
VSP1206PB81WA	6-SP301	AP		R
VSTT2140+++-F	3-Q602	AG		R

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RQ0007-S
Feb. 2006 Printed in Malaysia

Design and Production Information	
Design	:SEM
Production	:SREC

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CORPORATION (M) SDN. BHD
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